

OWNER ENGINEERING
SAFETY CONSULTANT
CLIENT
PROJECT CONSULTANT
PROJECT

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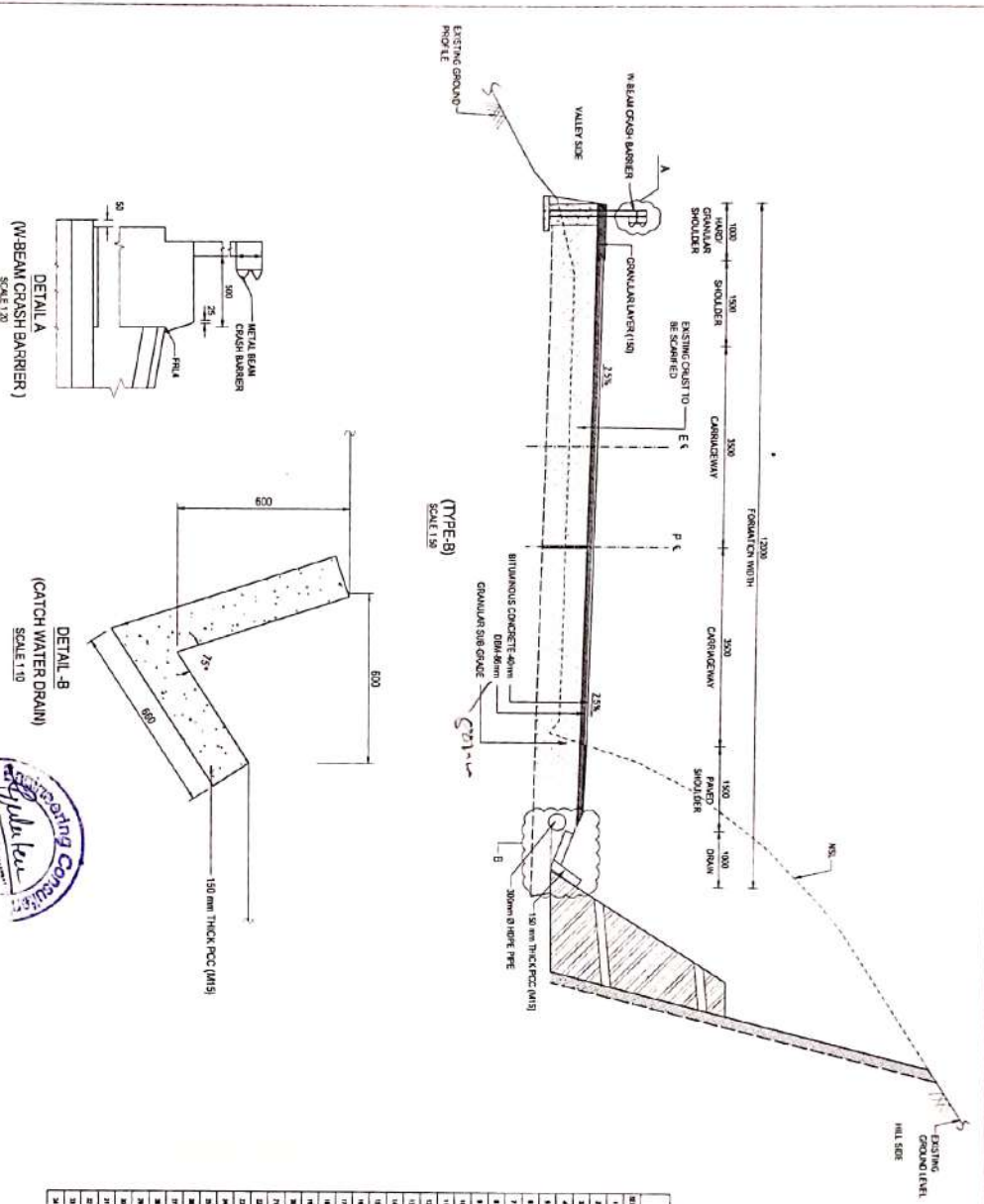
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LEGEND

- GRANULAR LAYER
- CONCRETE M 20
- 50% FINE (0.075)
- GRANULAR SUB GRADE
- NET LAYER (0.075)
- DENSE BITUMINOUS MC-DOM (DM)
- BITUMINOUS CONCRETE
- EXISTING CENTER LINE
- PROPOSED CENTER LINE

NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS
- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO FACE
- WATER COLLECTED TO DRAIN SHALL BE CONVEYED TO THE NEAREST COLLECTION POOL OR VALLEY SIDE

SCHEDULE OF APPLICABILITY

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	150mm THICK RCC (M15)	m	1000
2	150mm THICK RCC (M15)	m	1500
3	150mm THICK RCC (M15)	m	1000
4	150mm THICK RCC (M15)	m	1000
5	150mm THICK RCC (M15)	m	1000
6	150mm THICK RCC (M15)	m	1000
7	150mm THICK RCC (M15)	m	1000
8	150mm THICK RCC (M15)	m	1000
9	150mm THICK RCC (M15)	m	1000
10	150mm THICK RCC (M15)	m	1000
11	150mm THICK RCC (M15)	m	1000
12	150mm THICK RCC (M15)	m	1000
13	150mm THICK RCC (M15)	m	1000
14	150mm THICK RCC (M15)	m	1000
15	150mm THICK RCC (M15)	m	1000
16	150mm THICK RCC (M15)	m	1000
17	150mm THICK RCC (M15)	m	1000
18	150mm THICK RCC (M15)	m	1000
19	150mm THICK RCC (M15)	m	1000
20	150mm THICK RCC (M15)	m	1000
21	150mm THICK RCC (M15)	m	1000
22	150mm THICK RCC (M15)	m	1000
23	150mm THICK RCC (M15)	m	1000
24	150mm THICK RCC (M15)	m	1000
25	150mm THICK RCC (M15)	m	1000
26	150mm THICK RCC (M15)	m	1000
27	150mm THICK RCC (M15)	m	1000
28	150mm THICK RCC (M15)	m	1000
29	150mm THICK RCC (M15)	m	1000
30	150mm THICK RCC (M15)	m	1000
31	150mm THICK RCC (M15)	m	1000
32	150mm THICK RCC (M15)	m	1000
33	150mm THICK RCC (M15)	m	1000
34	150mm THICK RCC (M15)	m	1000
35	150mm THICK RCC (M15)	m	1000
36	150mm THICK RCC (M15)	m	1000
37	150mm THICK RCC (M15)	m	1000
38	150mm THICK RCC (M15)	m	1000
39	150mm THICK RCC (M15)	m	1000
40	150mm THICK RCC (M15)	m	1000
41	150mm THICK RCC (M15)	m	1000
42	150mm THICK RCC (M15)	m	1000
43	150mm THICK RCC (M15)	m	1000
44	150mm THICK RCC (M15)	m	1000
45	150mm THICK RCC (M15)	m	1000
46	150mm THICK RCC (M15)	m	1000
47	150mm THICK RCC (M15)	m	1000
48	150mm THICK RCC (M15)	m	1000
49	150mm THICK RCC (M15)	m	1000
50	150mm THICK RCC (M15)	m	1000

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ARPA
 National Highway & Infrastructure
 Development Corporation Ltd (NHIDCO)

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Home
 LANDMARK
 PVT LTD NRI

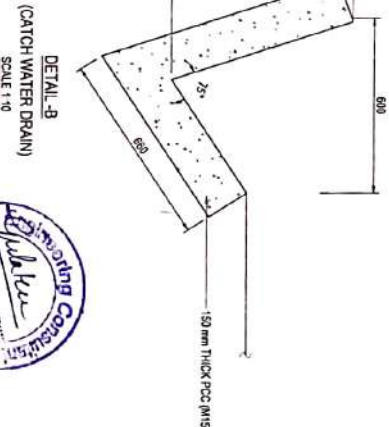
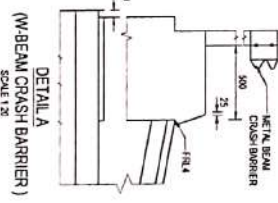
CLIENT
MAHARASHTRA
 HIGHWAYS
 DEPARTMENT

PROJECT
 CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO
 444.800 OF CHANDRA TO PANNI (EXCLUDING KM 427.825 TO
 KM 427.775, KM 428.800 TO KM 429.975 AND KM 444.425 TO
 KM 444.575) OF NH-07 UNDER CHANDRANATH PARVATIA DN
 EPC BASIS IN THE STATE OF UTTARANCHAL (PG-48)

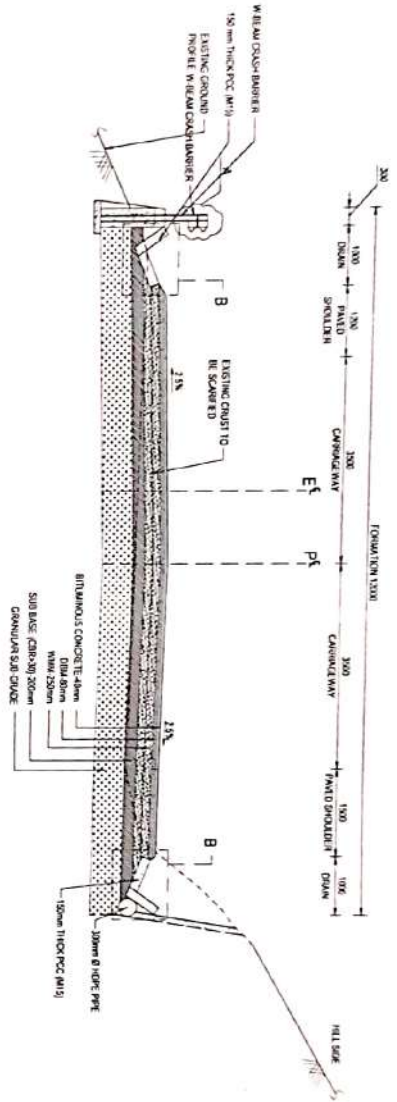
REVISION
 NO. DATE DESCRIPTION SCALE 1:50 1:20

DESIGNED BY BK
 APPROVED BY SN
 CHKD NO. CPG/ADT/CS/003
 REVISION R.O. JUNE-2016

TITLE
 TYPICAL CROSS SECTION
 (TYPE C)



(TYPE C)
 SCALE 1:50



- LEGEND
- GRAVELLY LAYER
 - CONCRETE M 20
 - SUB BASE (CBM-20)
 - GRAVELLY SUB-GRADE
 - WET MIX MACADAM (WMM)
 - DRIVE BITUMINOUS MACADAM (DBM)
 - BITUMINOUS CONCRETE
 - EXISTING CENTER LINE
 - PROPOSED CENTER LINE

- NOTES
- ALL DIMENSIONS ARE IN MILLIMETERS
 - UNLESS OTHERWISE SPECIFIED
 - NO DIMENSIONS SHALL BE MEASURED FROM SPANNS
 - ALL DIMENSIONS SHALL BE MEASURED FROM CENTER LINE TO THE CENTER COLLECTION POOL OR VALLEY SIDE

SCHEDULE OF APPLICABILITY

ITEM NO.	TYPE	THICKNESS (mm)	THICKNESS (mm)	THICKNESS (mm)
1	CONCRETE	150	150	150
2	CONCRETE	150	150	150
3	CONCRETE	150	150	150
4	CONCRETE	150	150	150
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6	CONCRETE	150	150	150
7	CONCRETE	150	150	150
8	CONCRETE	150	150	150

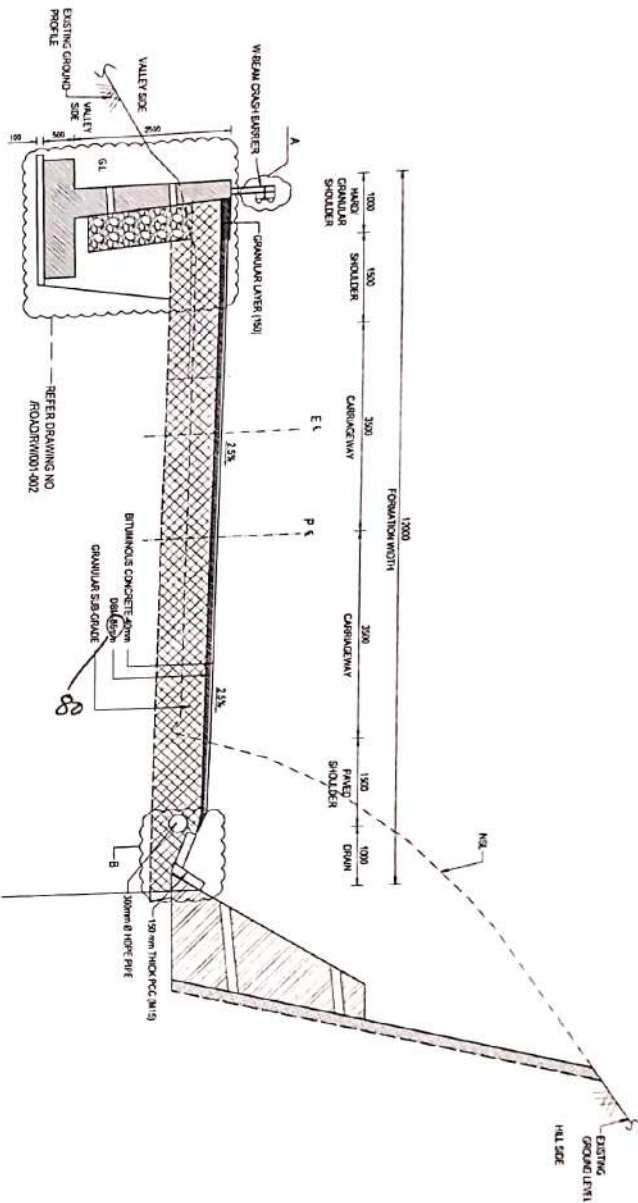


SCHEDULE OF APPLICABILITY
(7)(1)(D)

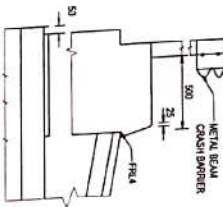
- ## NOTES

- ### LEGEND

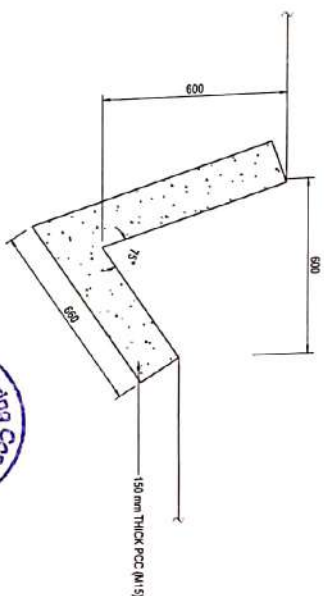
JUNE 2011



DETAIL A
(W-BEAM CRASH BARRIER)
SCALE 1:20



DETAIL A
(W-BEAM CRASH BARRIER)
SCALE 1:20



DETAIL B
(CATCH WATER DRAIN)
SCALE 1:10

LEGEND

- GRANULAR LAYER
- CONCRETE M 20
- SUB BASE (GSP-2)
- GRANULAR SUB GRADE
- WET MIX MUCOGAL (WMM)
- GENE BITUMINOUS MUCOGAL (GBM)
- BITUMINOUS CONCRETE
- EXISTING CENTER LINE
- PROPOSED CENTER LINE

NOTES

- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
- NO DIMENSIONS SHALL BE INFERRED FROM DRAWING
- ALL DIMENSIONS SHALL BE CHECKED TO THE HIGHEST COLLECTION POINT OR VALLEY SIDE

SCHEDULE OF APPLICABILITY

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
1	GRANULAR LAYER	m ³	1000
2	CONCRETE M 20	m ³	1000
3	SUB BASE (GSP-2)	m ³	1000
4	GRANULAR SUB GRADE	m ³	1000
5	WET MIX MUCOGAL (WMM)	m ³	1000
6	GENE BITUMINOUS MUCOGAL (GBM)	m ³	1000
7	BITUMINOUS CONCRETE	m ³	1000
8	EXISTING CENTER LINE	m	1000
9	PROPOSED CENTER LINE	m	1000
10	GRANULAR LAYER	m ³	1000
11	CONCRETE M 20	m ³	1000
12	SUB BASE (GSP-2)	m ³	1000
13	GRANULAR SUB GRADE	m ³	1000
14	WET MIX MUCOGAL (WMM)	m ³	1000
15	GENE BITUMINOUS MUCOGAL (GBM)	m ³	1000
16	BITUMINOUS CONCRETE	m ³	1000
17	EXISTING CENTER LINE	m	1000
18	PROPOSED CENTER LINE	m	1000
19	GRANULAR LAYER	m ³	1000
20	CONCRETE M 20	m ³	1000
21	SUB BASE (GSP-2)	m ³	1000
22	GRANULAR SUB GRADE	m ³	1000
23	WET MIX MUCOGAL (WMM)	m ³	1000
24	GENE BITUMINOUS MUCOGAL (GBM)	m ³	1000
25	BITUMINOUS CONCRETE	m ³	1000
26	EXISTING CENTER LINE	m	1000
27	PROPOSED CENTER LINE	m	1000
28	GRANULAR LAYER	m ³	1000
29	CONCRETE M 20	m ³	1000
30	SUB BASE (GSP-2)	m ³	1000
31	GRANULAR SUB GRADE	m ³	1000
32	WET MIX MUCOGAL (WMM)	m ³	1000
33	GENE BITUMINOUS MUCOGAL (GBM)	m ³	1000
34	BITUMINOUS CONCRETE	m ³	1000
35	EXISTING CENTER LINE	m	1000
36	PROPOSED CENTER LINE	m	1000

OWNER ENGINEERING



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



Ministry of Road Transport and Highways

CLIENT



NHG INFRASTRUCTURE

PROJECT CONSULTANT



NHG INFRASTRUCTURE

PROJECT
CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 428.98 TO KM 437.75, NH 428.98 TO KM 437.75 AND KM 444.42 TO KM 444.42 IN THE STATE OF UTTARANCHAL (PNC-III)

CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 428.98 TO KM 437.75, NH 428.98 TO KM 437.75 AND KM 444.42 TO KM 444.42 IN THE STATE OF UTTARANCHAL (PNC-III)

CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 428.98 TO KM 437.75, NH 428.98 TO KM 437.75 AND KM 444.42 TO KM 444.42 IN THE STATE OF UTTARANCHAL (PNC-III)

DRAWN BY

DESIGNED BY

APPROVED BY

DATE

DESCRIPTION

SCALE

TITLE

CHK NO

REVISION NO

JUNE-2018

JUNE-2018

JUNE-2018



Scanned with OKEN Scanner



- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED
 2. NO DIMENSIONS SHALL BE MEASURED FROM DRAINING WATER COLLECTED TO DRAIN SHALL BE CANNED TO THE NEAREST COLLECTION POOL OR VALLEY SIDE

BOOK NO	UNIT CHANGE PER	NO CHANGE PER	UNIT PER
1	424-5	424-5	2
2	424-5	424-5	3
3	424-5	424-5	2
4	424-5	424-5	2
5	424-5	424-5	3
6	424-5	424-5	1/2
7	424-5	424-5	10



OWNER ENGINEERING

 **NHIDCL**

National Highways & Infrastructure
Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT
BY ME
MAADHAY
PVT LTD NEPL

CLIENT
NKG
NKG INFRASTRUCTURE

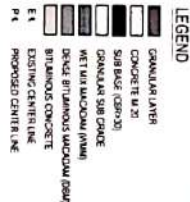
MOE GLOBAL CONSULTANTS
301 West 42nd Street, 12th Floor
New York, NY 10018
www.moeconsultants.com

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 448.000 OF CHIAUHO TO PA-NUY (EXCLUDING KM 447.435 TO KM 447.775, KM 458.000 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-37 UNDER CHAHOHOHO PAROJANG ON EPC BASIS IN THE STATE OF UTTARAKHAND (P&G-44)

[illegible]

DRAWN BY	EM
DESIGNED BY	SK
APPROVED BY	DK
SCALE	1/50, 1/20

TITLE		TYPICAL CROSS-SECTION (TYPE-H)
DWG NO	CPROADTCS008	
REVISION	R-0	JUNE-2019



- NOTES**
- 1 ALL DIMENSIONS ARE IN MILLIMETER
UNLESS OTHERWISE SPECIFIED
2 NO CONNECTIONS SHALL BE MADE FROM DRAINING
WATER COLLECTED TO DRAIN SHALL BE DRAINAGE TO THE NEAREST
COLLECTION POOL OR VALLEY SIDE

SCHEDULE OF APPLICABILITY			
(Type 2)			
STRAIT CHANNEL AND THE CHANNEL JAIL	STRAIT CHANNEL AND THE CHANNEL JAIL	STRAIT CHANNEL AND THE CHANNEL JAIL	LENGTH
1	4.00-7.00	4.00-7.00	40
2	8.00-10.00	8.00-10.00	30
3	11.00-13.00	11.00-13.00	20

DETAIL A
15M CRASH BARRIER)
SCALE 1:20

DETAIL -B
WATER DRAIN
SCALE 1:10

OWNER ENGINEERING

AMDEAL

National Highways & Infrastructure
Development Corporation Ltd (NHIDC)

3M
ANONIM
PVTLD MEPL

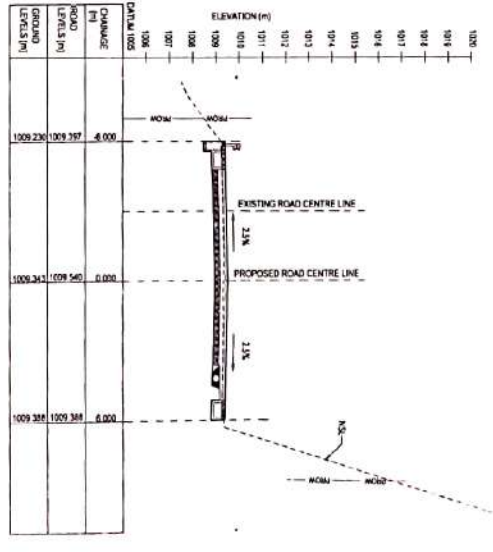
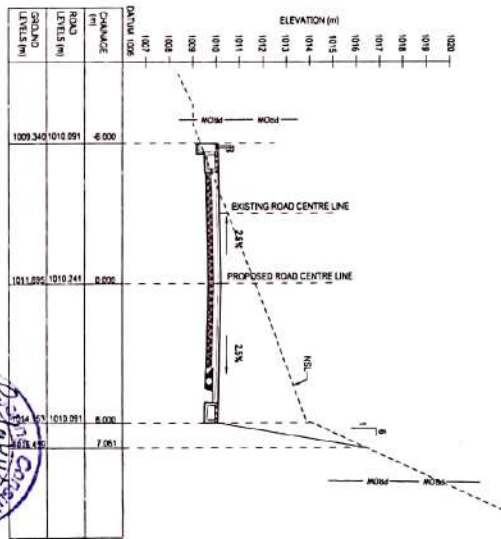
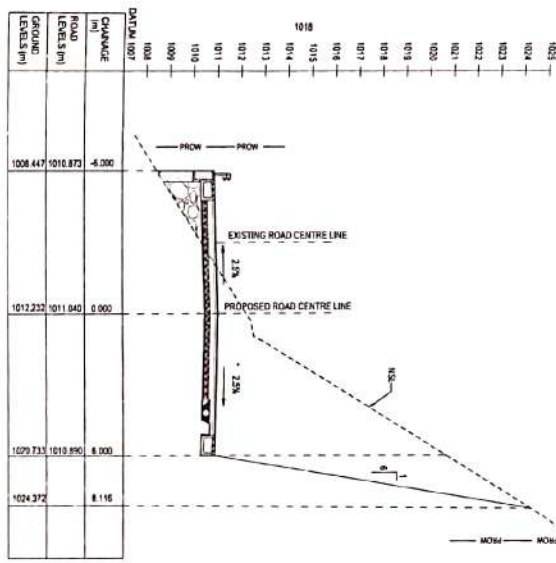
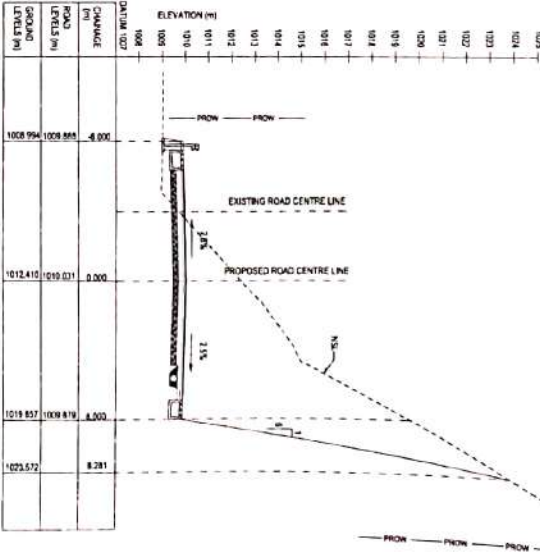
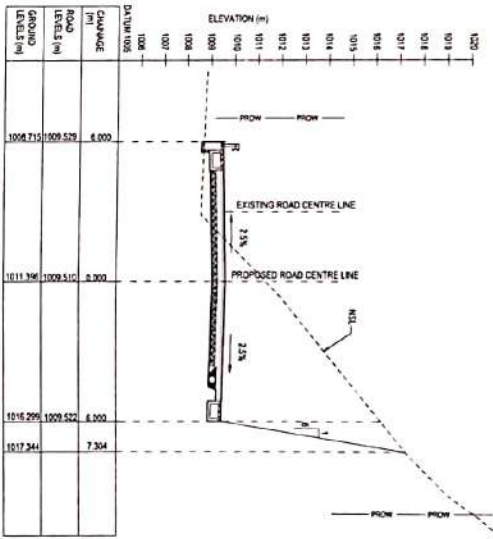
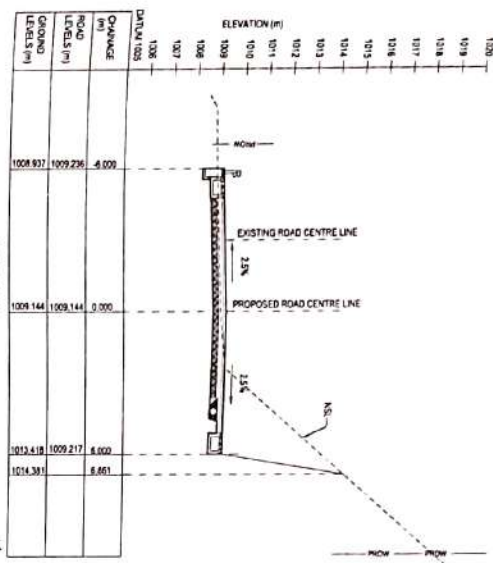
CLIENT
DESIGN AFFECT
NKG
NKG INFRASTRUCTURE

PROOF CONSULTANT
KODAK COPY CONSULTANT
201 KODAK COPY CONSULTANT
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www.kodak.com/copy

PROJECT
CONSTRUCTION & UPGRADATION OF EXISTING ROAD
- 1-LANE WITH PAVED SHOULDER FROM KM 430/07 TO
- 462/00 OF CHAMUHO TO PANI (EXCLUDING KM 437 635
- KM 431 773, KM 438 900 TO KM 439 413 AND KM 464 435
- KM 464 525) OF NH-07 UNDER CHARDHAM PARITONA
EPIC BASINS IN THE STATE OF UTTARAKHAND (P&S-II)

[illegible]

DESIGNED BY	SK	TITLE	TYPICAL CROSS SECTION (TYPE A)
APPROVED BY	DK		
SCALE	1:50 1:20	DRG NO.	CPIR04DTC5039
		REVISION	R.O.
			JUNE 20



427+650

427+675

427+700

NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

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EPC CONTRACTOR

PROJECT CONSULTANT

301 Kailash, Sector 14, Durga, New Delhi, Delhi 110015
www.eppcconsultants.com

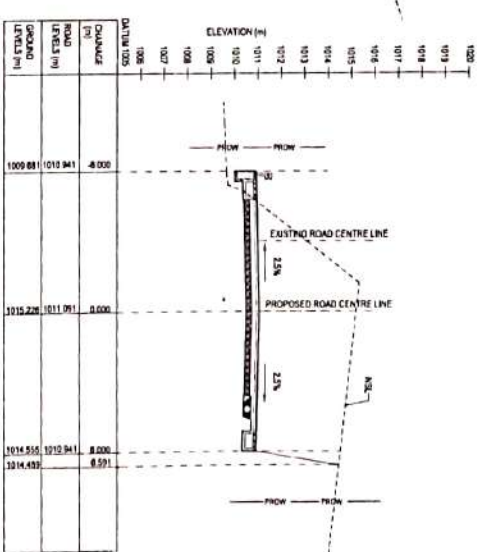
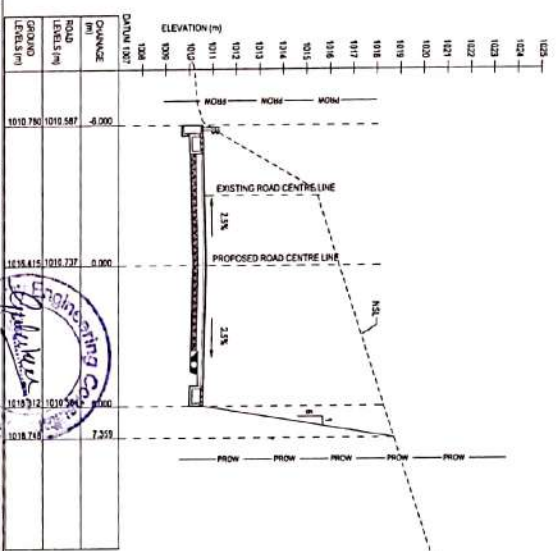
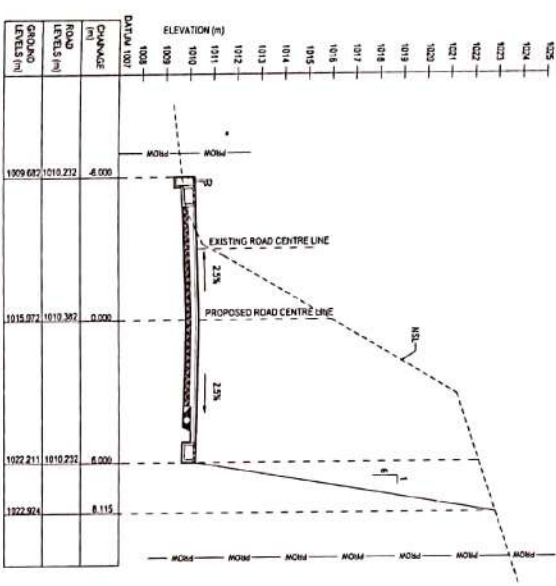
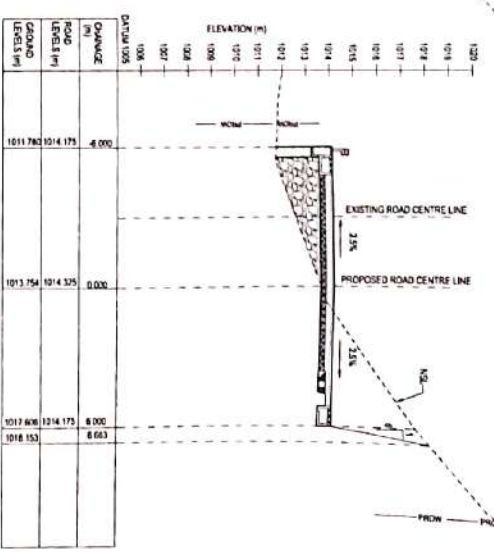
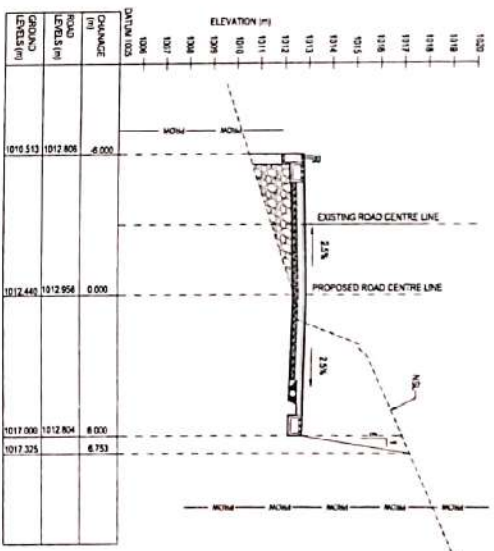
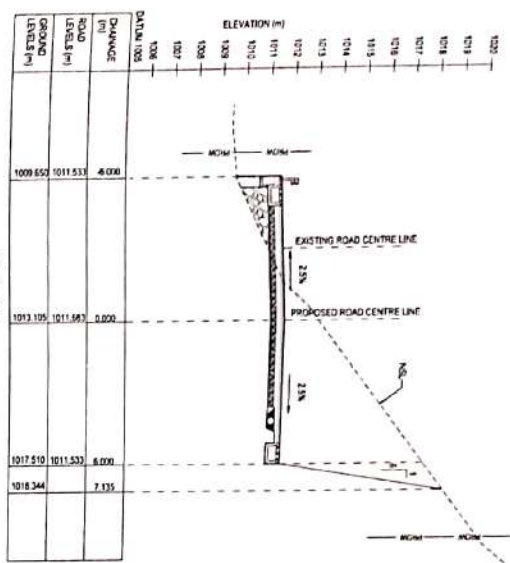
PROJECT: CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANDIGARH ROAD TO NH 436.425 AND NH 464.425 TO KM 464.523 OF NH-07 UNDER CHANDIGARH PARITONIA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PG-III)

REV	DATE	DESCRIPTION

SCALE	1:500 (A1)	1:200 (A2)

DRAWN BY	AS	TITLE
DESIGNED BY	SK	PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHAINAGE 427+775
APPROVED BY	DK	
DRG. NO.	CP/ROADS/019	
REVISION	R-0	

DCT-2018



NOTES: 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

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EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD TO 8 LANE WITH RAMPED SHOULDERS FROM KIL 427+800 TO KIL 427+925. KIL 427+800 TO KIL 427+875 AND KIL 427+875 TO KIL 427+925 OF NH-47 UNDER CHARGHAM PARIYOJANA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PG-III)

REV

DATE

DESCRIPTION

DRAWN BY AS

DESIGNED BY SK

APPROVED BY DK

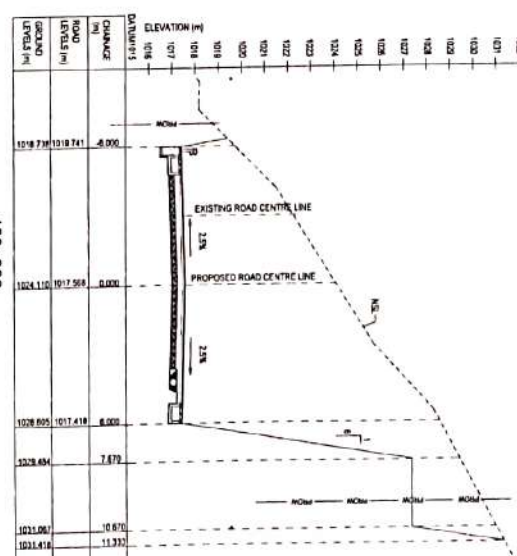
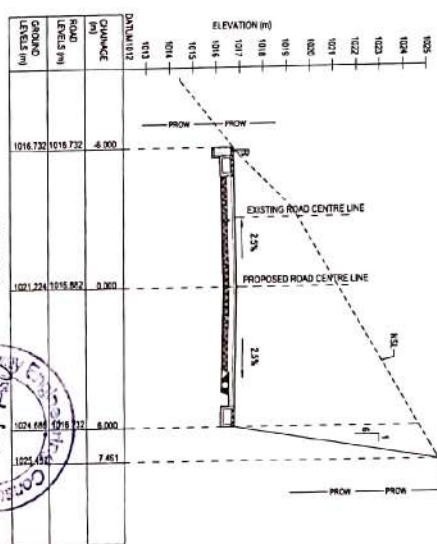
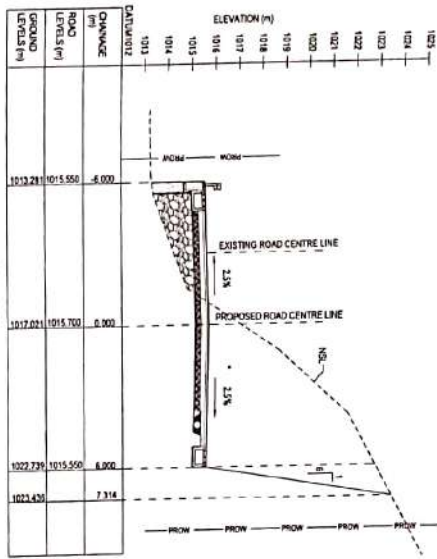
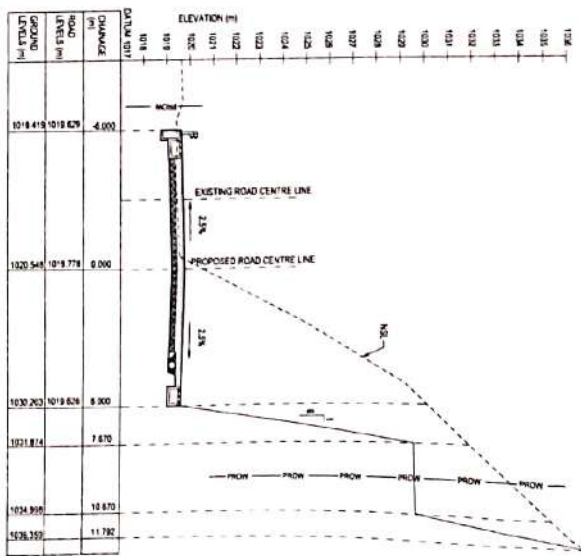
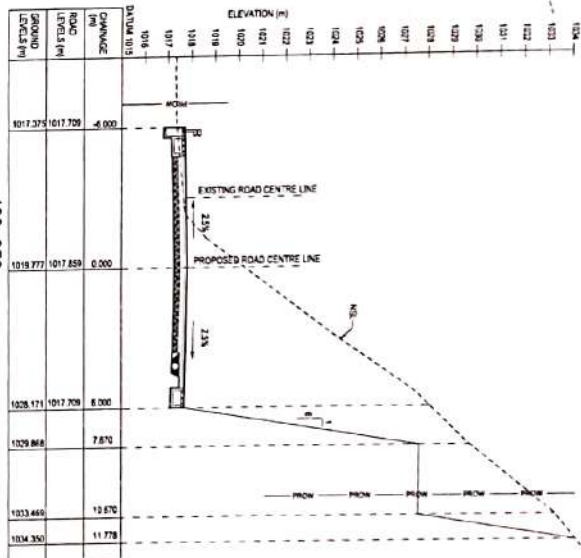
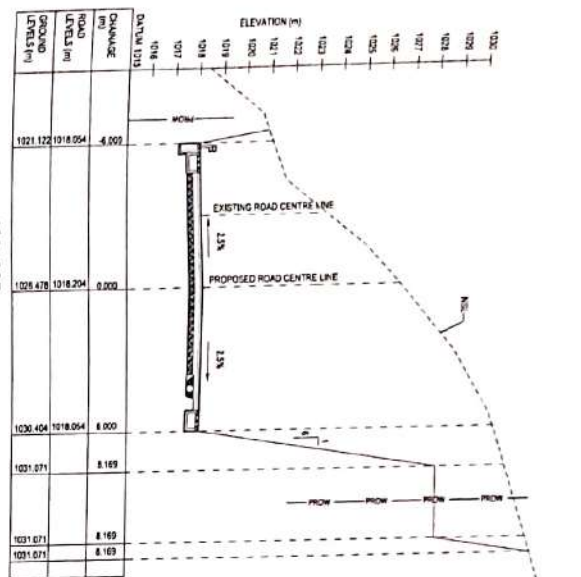
SCALE 1:200 (A2)

TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 427+800 TO 427+925

DRG NO CPM/ODCS/020

REVISION R-0

OCT-2018



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

REV

DATE

NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

2. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED



National Highways & Infrastructure Development Corporation Ltd (NHIDCO)



M&M ENGINEERING PVT. LTD.



DESIGN & CONSTRUCT LTD.



PROJECT CONSULTANTS PVT. LTD.

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 ON NH-4775, KM 458.500 TO KM 459.475 AND KM 464.425 TO KM 464.525 OF NH-07 UNDER CHANDRAPHAM PARVOLA, ON EPC BASIS IN THE STATE OF UTTARANCHAL (PNC-II)

DESIGNED BY SK

APPROVED BY OK

SCALE

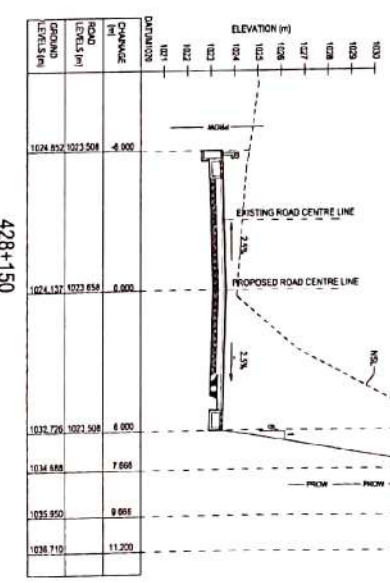
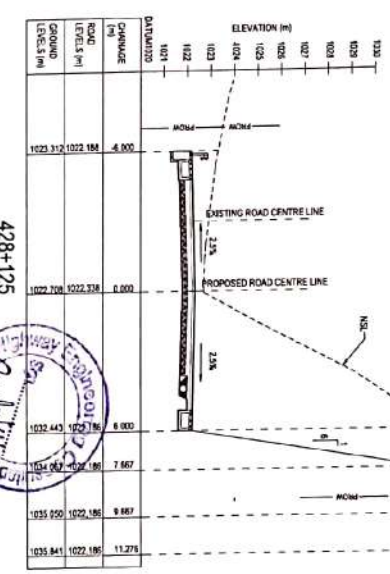
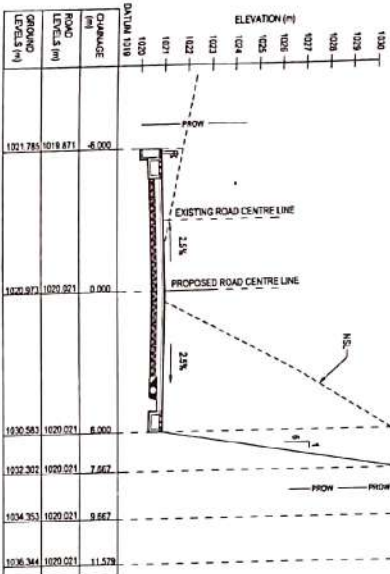
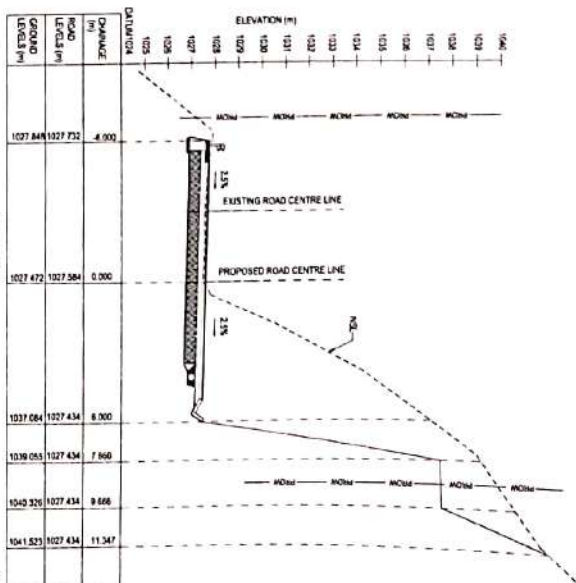
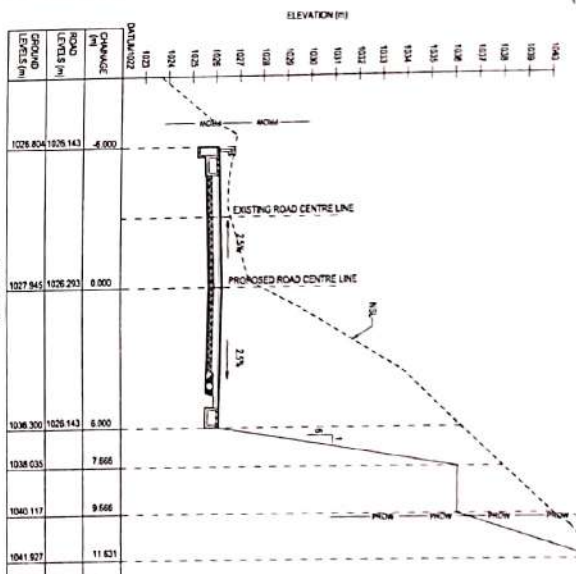
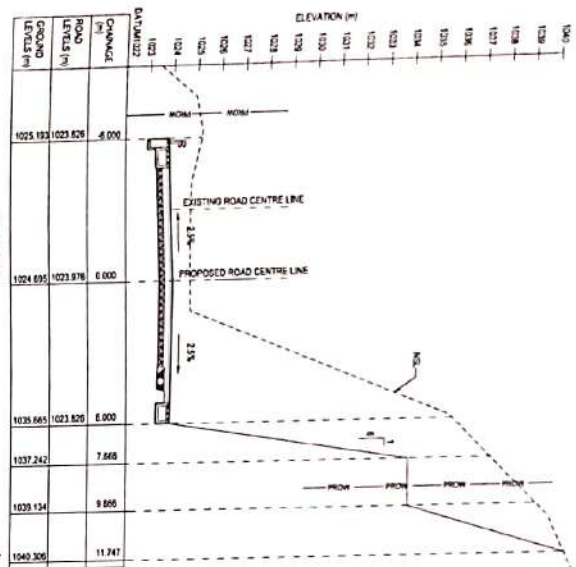
1:100 (A1)
1:200 (A2)

1:200 (A1)
1:200 (A2)

1:200 (A1)
1:200 (A2)



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428+100

428+125

428+150

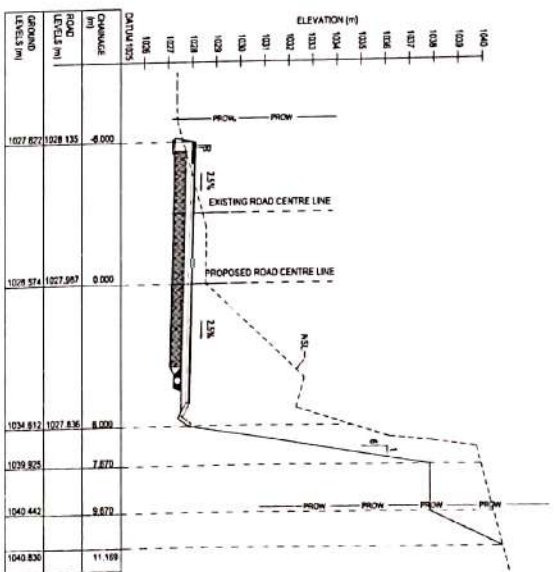
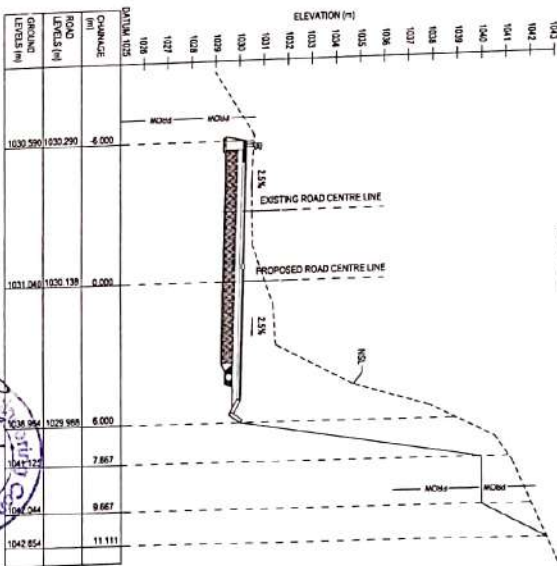
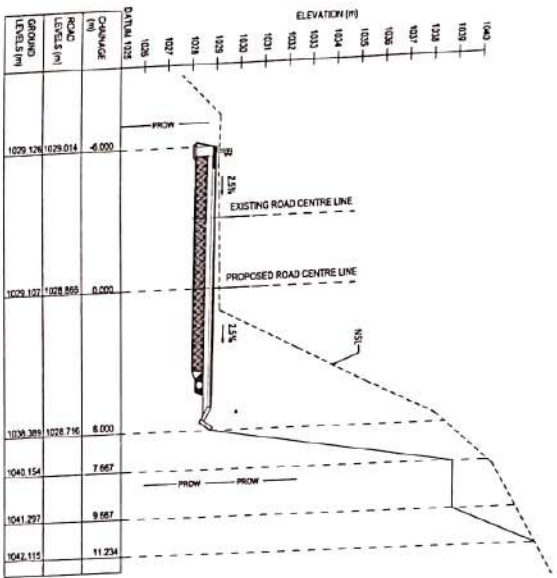
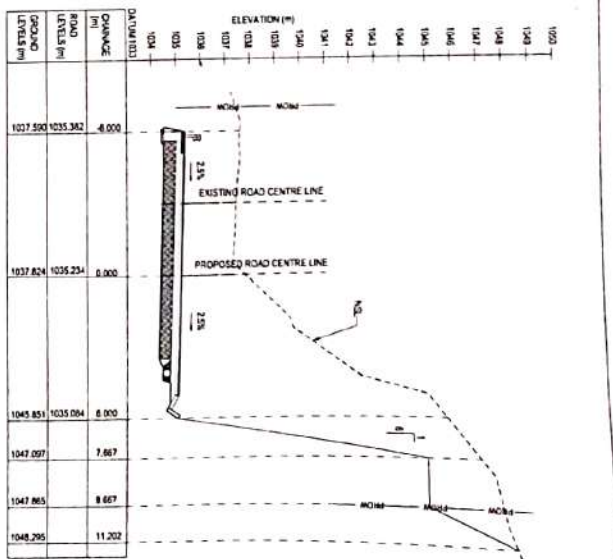
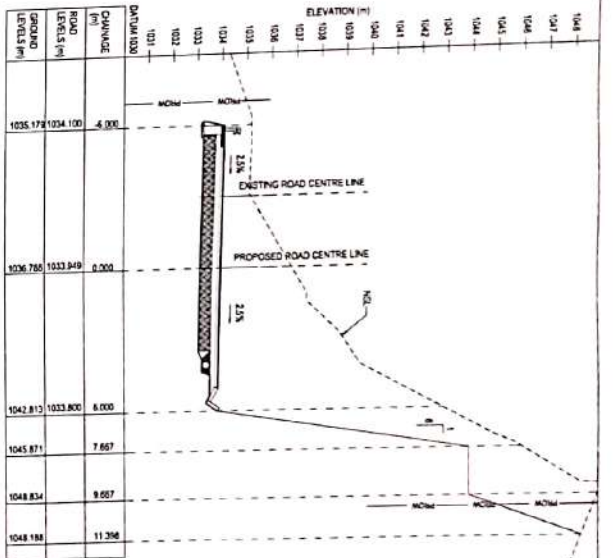
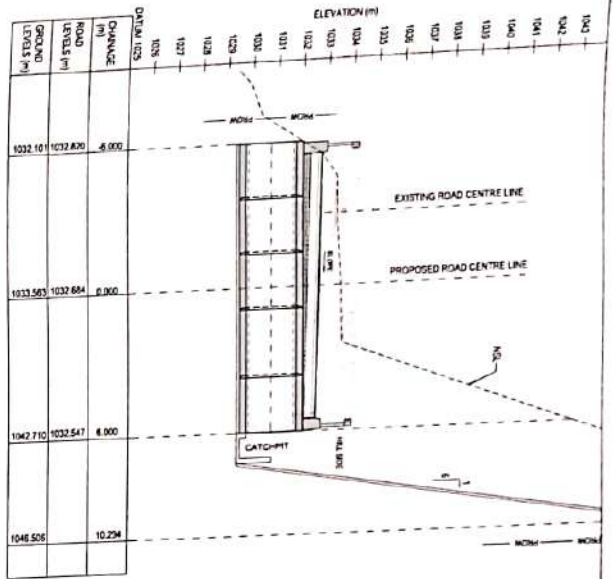
428+175

428+200

428+225

NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

OWNER ENGINEERING: National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT: S.M. ENGINEERS PVT. LTD.		EPC CONTRACTOR: NAG INFRASTRUCTURE LTD.	
PROJECT CONSULTANT: KCC GLOBAL CONSULTANTS PVT. LTD. 31, Kirti Nagar, Sector 14, Delhi-110015 Tel: 011-261710015 Email: kccglobal@gmail.com		PROJECT: CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 428+000 TO KM 468+000 OF CHANNOI TO PANAM ROAD, DISTRICT OF CHANNOI, NAGALAND TO KM 428+000 AND KM 468+000 TO KM 464+500 OF NH-07 UNDER CHANPHAM PARISHAD, ON EPC BASIS IN THE STATE OF ULTRAPAND (PNC-II)			
REV	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	APPROVED BY
			AS	SK	DK
			SCALE	1:500 (A1)	1:500 (A3)
			REVISION	R-0	
			TITLE	PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 428+100 TO 428+225	
			DWG NO	CP/ROADS/022	
				OCT-2018	



428+250

428+275

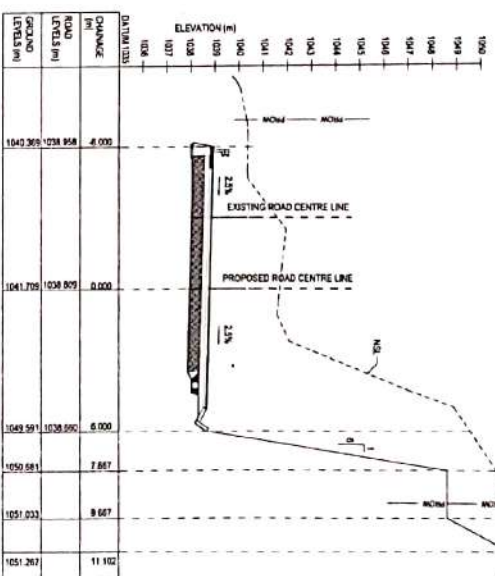
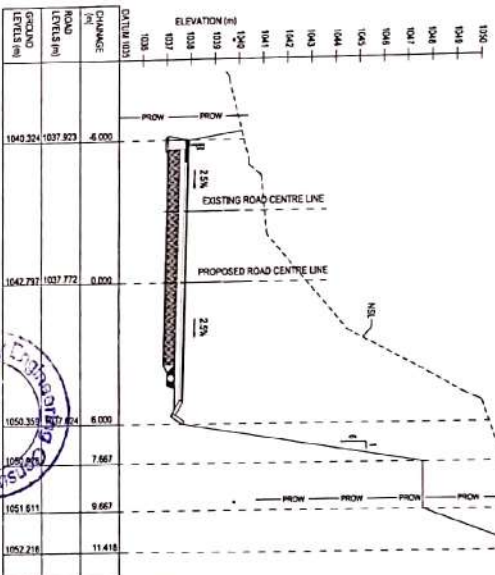
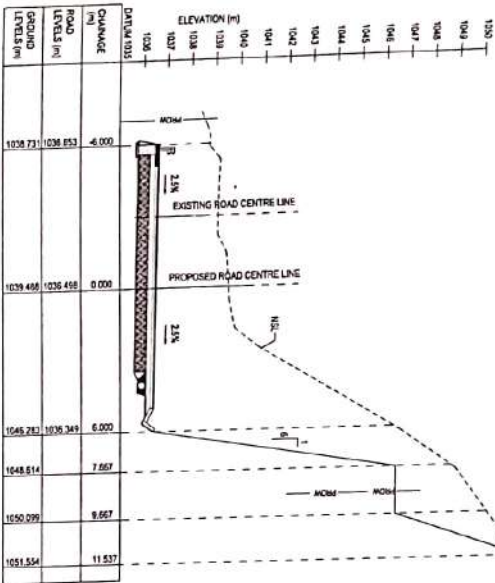
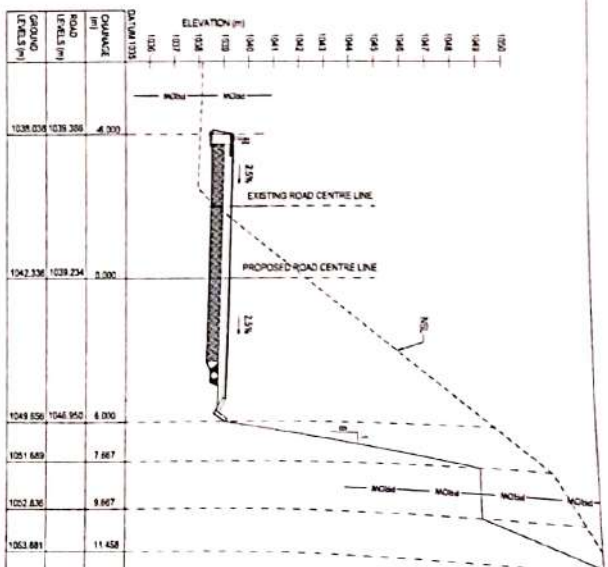
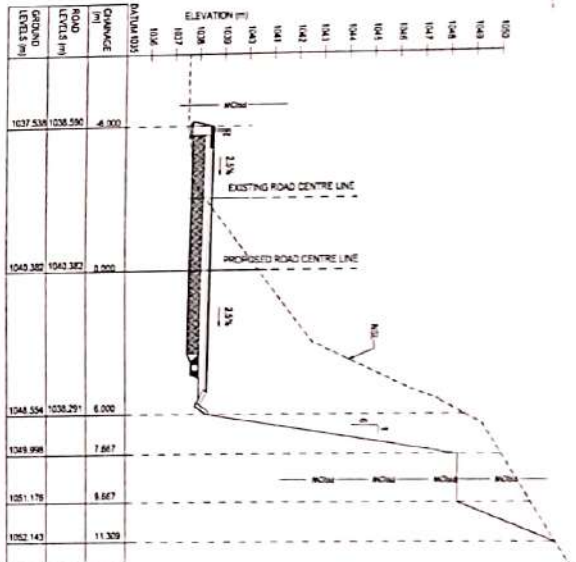
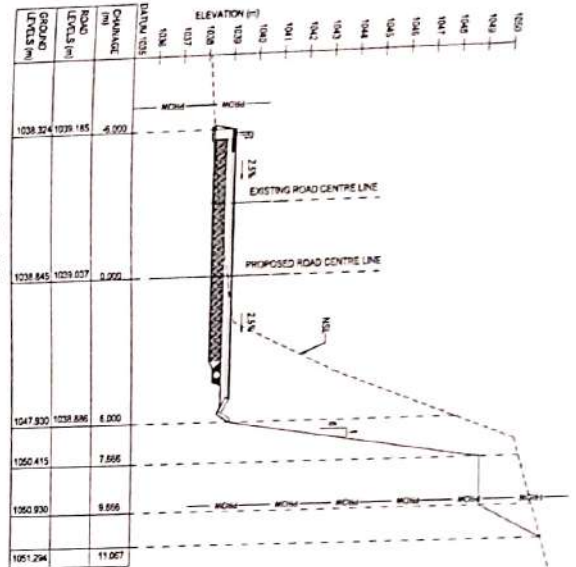
428+300

428+325

428+350

428+375

OWNER ENGINEERING National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT MAHOMAY ENGINEERS PVT LTD MEPL		EPC CONTRACTOR KGC INFRASTRUCTURE LTD		PROJECT CONSULTANT KGC GLOBAL CONSULTANTS PVT LTD 301, Vardaan, Sector 14, Gurgaon, Haryana New Delhi, India-122005 Phone: 0120-4170105 Email: kgcglobal@gmail.com							
PROJECT ROAD TO BLANK WITH PAVED SHOULDER FROM KM 430.000 TO KM 468.000 OF CHANOLI TO PANI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.920 TO KM 459.475 AND KM 464.425 TO KM 464.525 OF NH-47 UNDER CHANDHAR PARYOJANA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PG-III)		REVISION <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DATE	DESCRIPTION				DRAWN BY AS DESIGNED BY SK APPROVED BY OK SCALE 1:200 (A)		TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHANOLI 428+250 TO 428+375 ORG NO CPROADCS/023 REVISION R-0 DATE OCT-2018	
REV	DATE	DESCRIPTION											



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDER FROM KM 430.000 TO KM 468.000 OF CHAUDHOTO PAHARI EXCLUDING KM 437.625 TO KM 437.775, KM 458.900 TO KM 459.475 AND KM 464.425 TO KM 464.525 OF NH-47 UNDER CHANDHOTO PAHARI ON EPC BASIS IN THE STATE OF UTTARAKHAND (P&G-II)

REV DATE DESCRIPTION

SCALE 1:100 (A1) 1:200 (A2)

NOTES

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

TITLE

PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 428+400 TO 428+525

DESIGNED BY SK

APPROVED BY OK

DWG NO C/ROAD/CS/204

REVISION R-0

OCT-2018

National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

MANOKAY ENGINEERS PVT. LTD.

ING INFRAStructure LTD.

KOC GLOBAL CONSULTANTS PVT. LTD.

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDER FROM KM 430.000 TO KM 468.000 OF CHAUDHOTO PAHARI EXCLUDING KM 437.625 TO KM 437.775, KM 458.900 TO KM 459.475 AND KM 464.425 TO KM 464.525 OF NH-47 UNDER CHANDHOTO PAHARI ON EPC BASIS IN THE STATE OF UTTARAKHAND (P&G-II)

REV DATE DESCRIPTION

SCALE 1:100 (A1) 1:200 (A2)

NOTES

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

TITLE

PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 428+400 TO 428+525

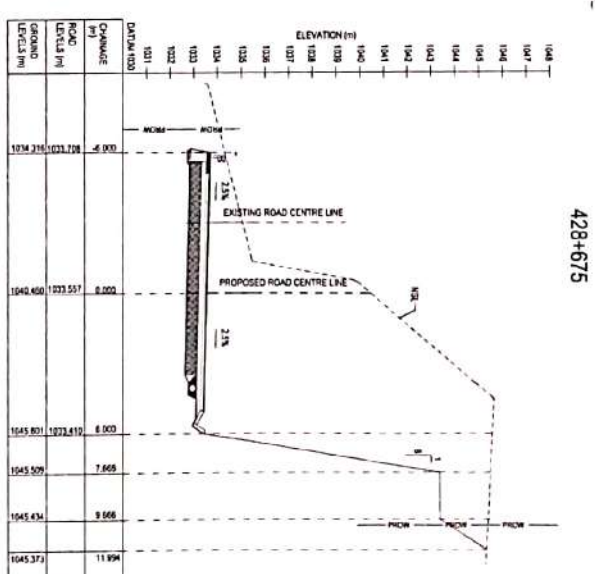
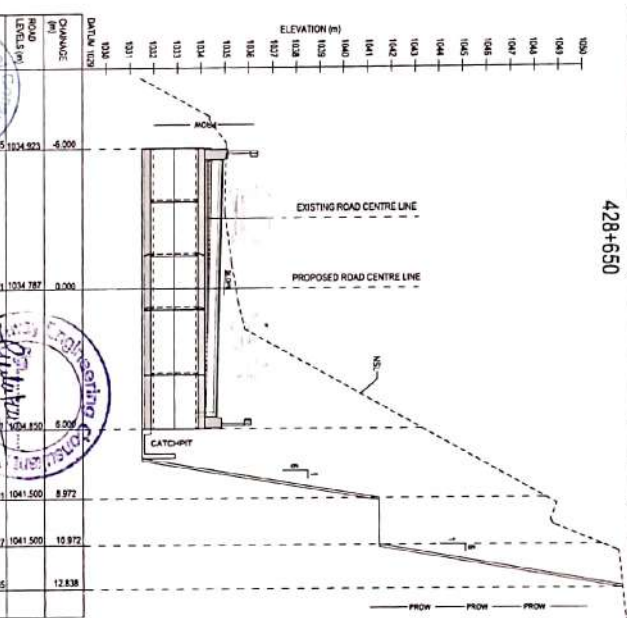
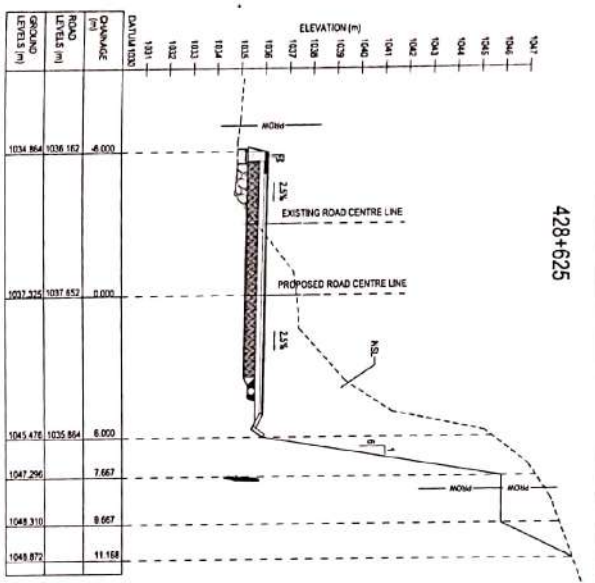
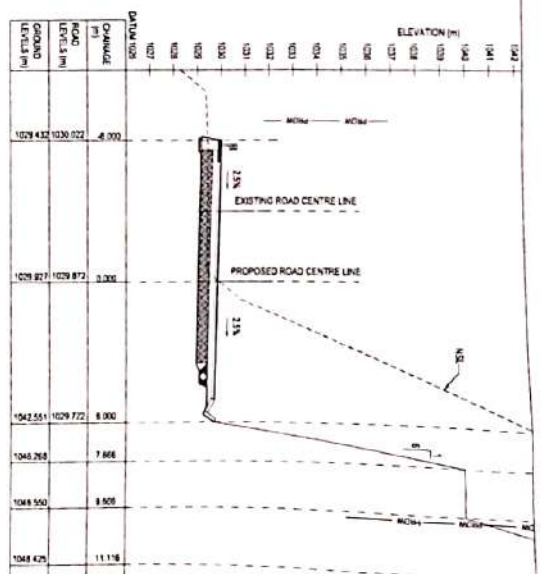
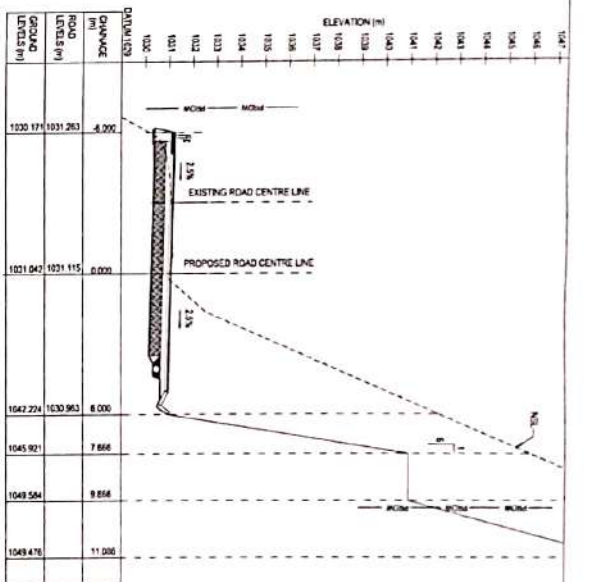
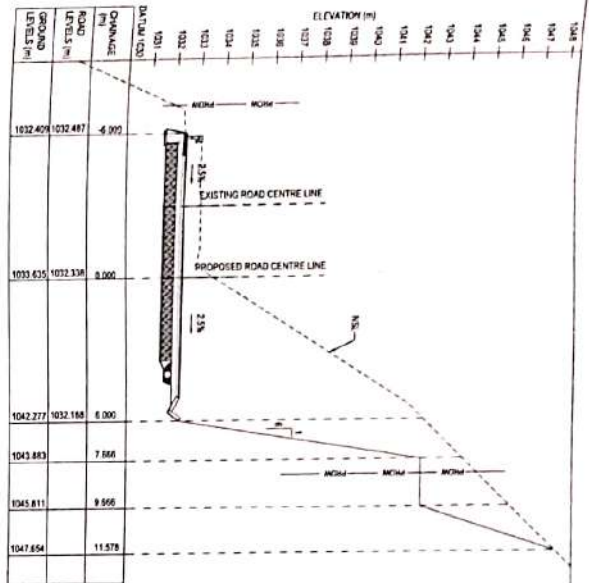
DESIGNED BY SK

APPROVED BY OK

DWG NO C/ROAD/CS/204

REVISION R-0

OCT-2018



428+600

428+625

428+650

428+675

OWNER ENGINEERING

SAFETY CONSULTANT

ERC CONTRACTOR

PROF CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A2)

DESIGNED BY

APPROVED BY

DRG NO

REVISION R-0

100 (A1)

100 (A1)

100 (A1)

100 (A1)

100 (A1)

100 (A1)

100 (A1)



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)



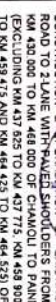
M&ME ENGINEERS PVT. LTD.



K&S INFRASTRUCTURE LTD.



K&S INFRASTRUCTURE PVT. LTD.



K&S INFRASTRUCTURE PVT. LTD.



K&S INFRASTRUCTURE PVT. LTD.



K&S INFRASTRUCTURE PVT. LTD.



K&S INFRASTRUCTURE PVT. LTD.



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K&S INFRASTRUCTURE PVT. LTD.



K&S INFRASTRUCTURE PVT. LTD.



K&S INFRASTRUCTURE PVT. LTD.

OWNER ENGINEERING:
National Highways & Infrastructure
Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:
PME
MANOMAY ENGINEERS
PVT LTD MEPL

EPC CONTRACTOR:
M&S INFRASTRUCTURE LTD.

PROJECT CONSULTANT:
M&S CONSULTANTS PVT. LTD.
30/3, 3rd Floor, Sector 14, Dwarka,
New Delhi, India 110075
www.mscpl.co.in

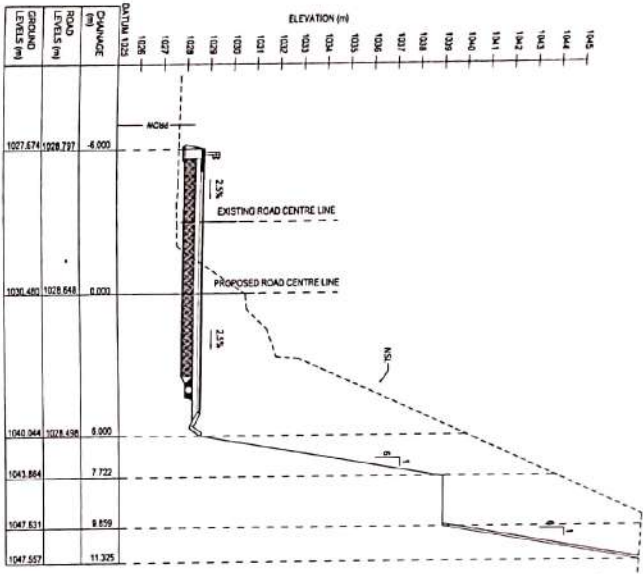
PROJECT:
CONSTRUCTION & UPGRADE OF EXISTING
ROAD TO 2 LANE-4 METER OF CHANOLI TO PANI
EXCLUDING KM 437.625 TO KM 437.775 KM 438.800
TO KM 439.475 AND KM 439.425 TO KM 439.525 OF
NH-67 UNDER CHANDAN PARIWASHAN ON EPC
BASIS IN THE STATE OF UTTARANCHAL (P&C-II)

REV	DATE	DESCRIPTION

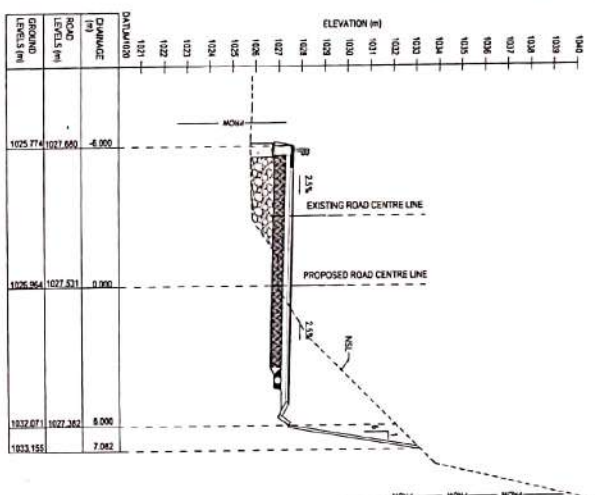
DRAWN BY AS	TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 428+700 TO 428+750
DESIGNED BY SK	APPROVED BY DK
SCALE 1:100 (A1) 1:200 (A3)	REVISION: R-0
DATE OCT-2018	

NOTE:
ALL DIMENSIONS ARE IN METRE UNLESS OTHERWISE SPECIFIED

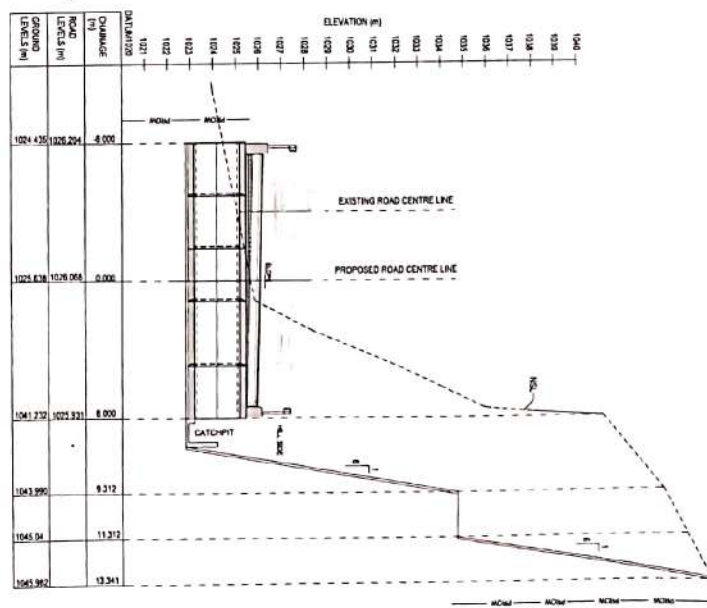
428+700

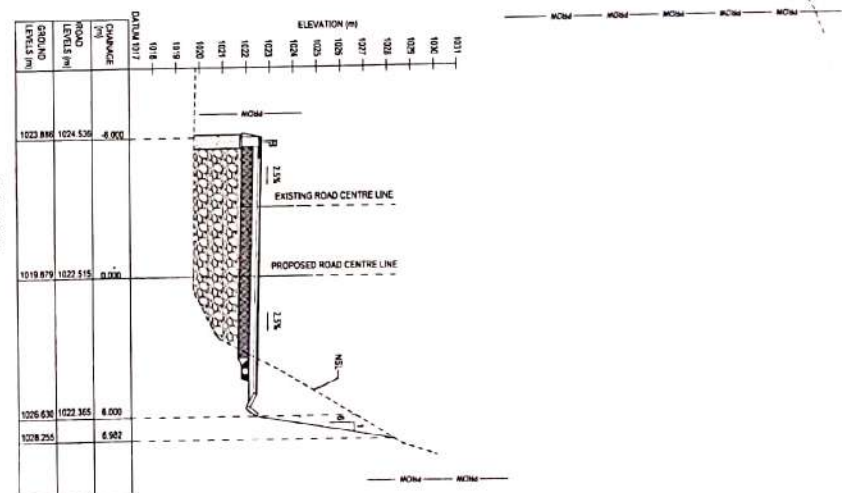
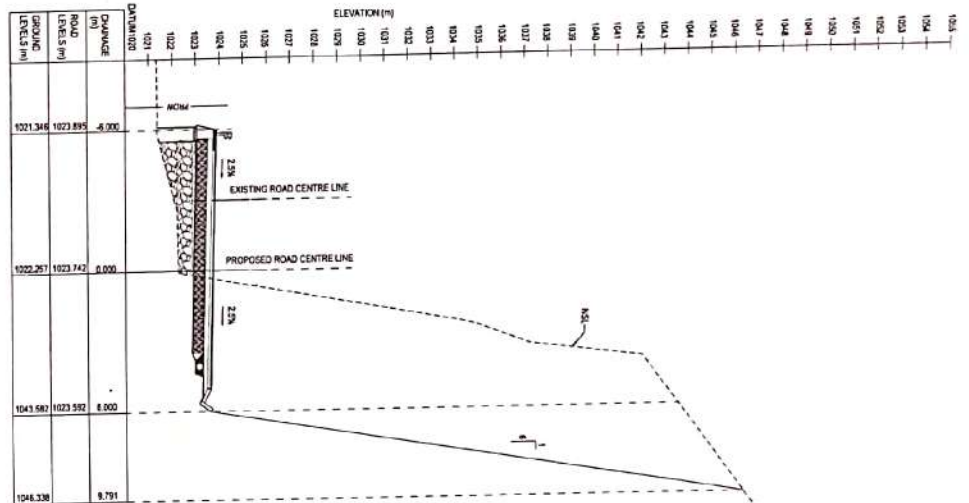
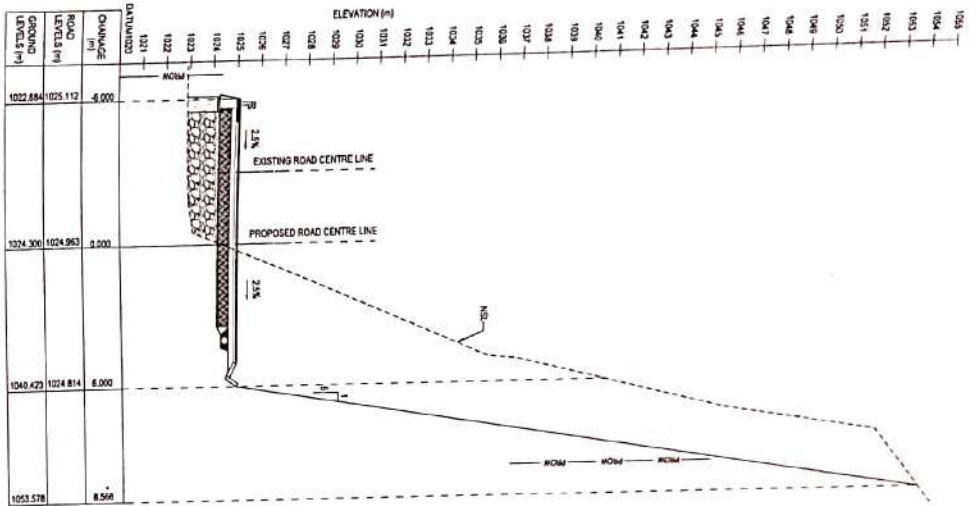


428+725



428+750





OWNER ENGINEERING:

SAFETY CONSULTANT:

EPC CONTRACTOR:

PROJECT CONSULTANT:

PROJECT DESCRIPTION: IMPROVEMENT OF EXISTING ROAD TO STATE HIGHWAY STANDARD FROM KM 430.000 TO KM 450.000 OF CHANOLI TO PANI (EXCLUDING KM 437.825 TO KM 437.775, KM 458.920 TO KM 459.475 AND KM 454.425 TO KM 454.525) OF NH-07 UNDER CHANDHAM PRAVIOVA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKM IN)

REV

DATE

DESCRIPTION

SCALE

REVISION R-0

NOTES: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHAINAGE 428+775 TO 428+825

DESIGNED BY: SK

APPROVED BY: DK

DWG NO: CPRO/C/S/027

PCT: 2018

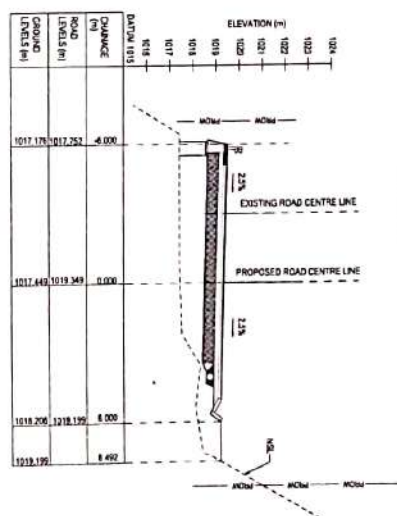
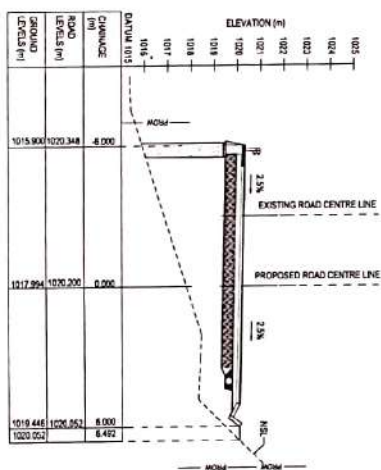
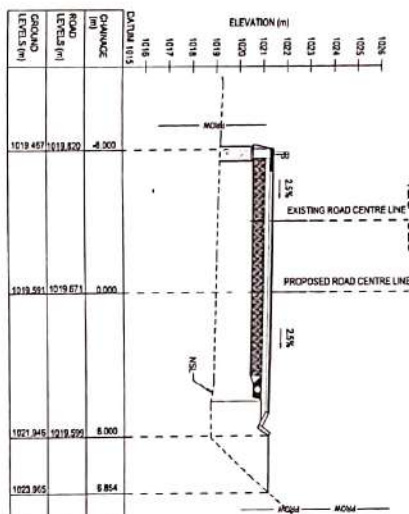
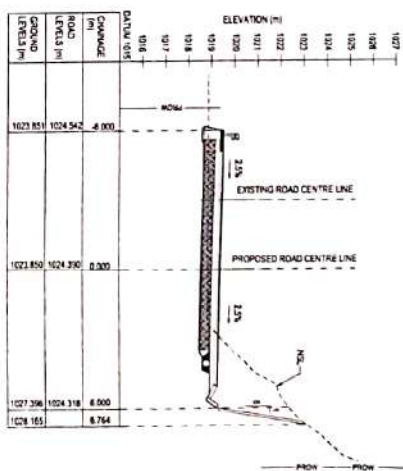
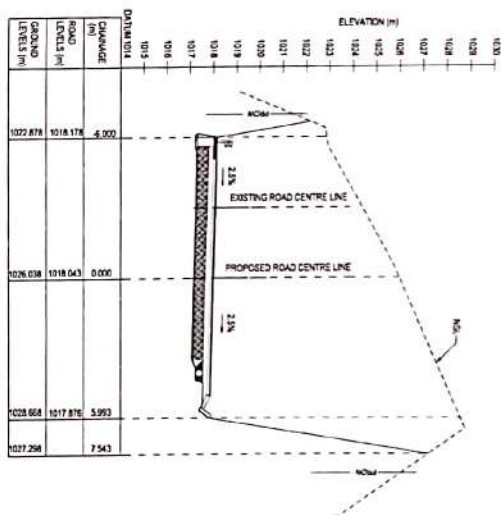
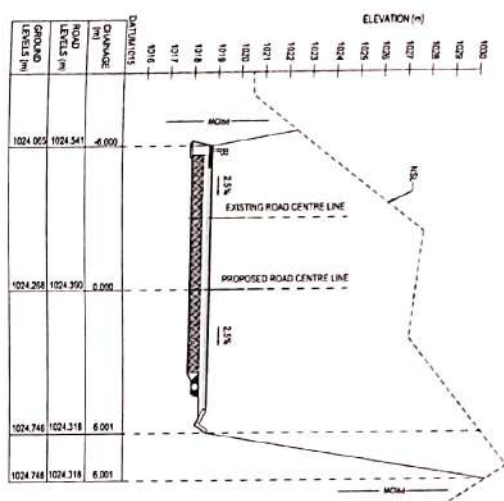
National Highway & Infrastructure Development Corporation Ltd. (NHIDCL)

MANOJAV ENGINEERS PVT. LTD.

DESIGN CONSULTANT: MNG INFRASTRUCTURE LTD.

PROJECT CONSULTANT: 1.301 Khasia Road, Sector 14, Dwarka, New Delhi, 110015

Engineering Consultant

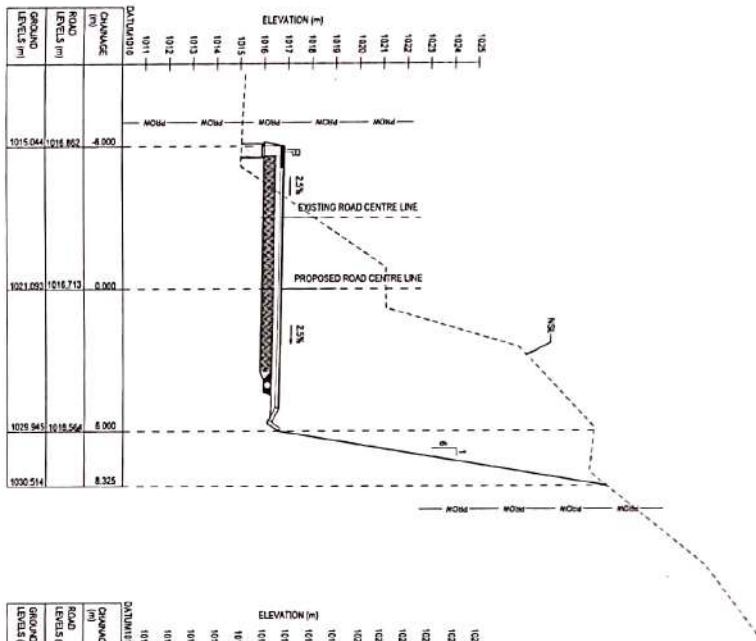


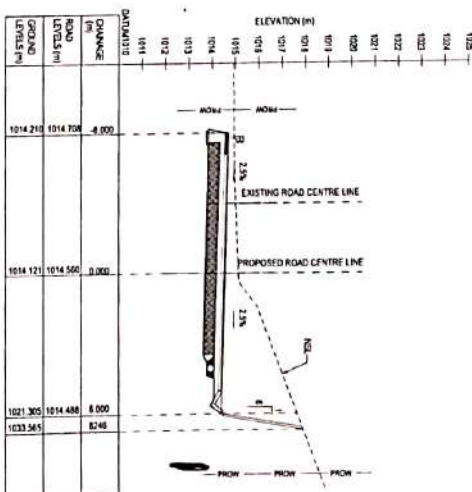
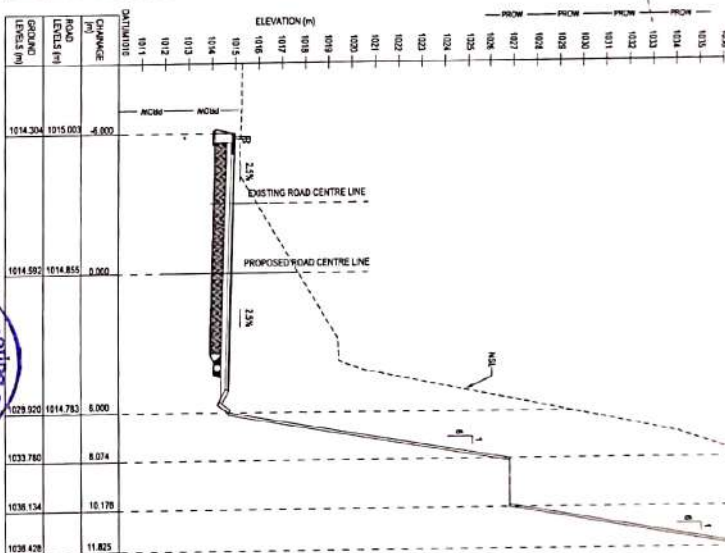
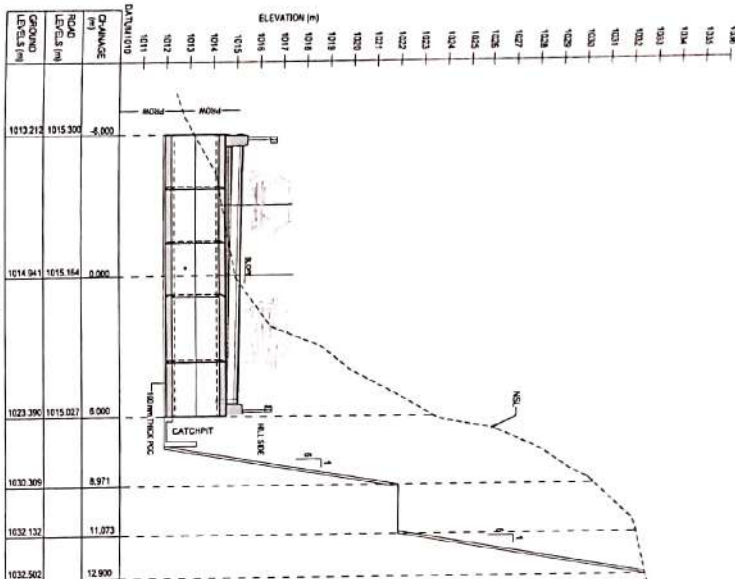
428+850

 $428 + 875$

428+900

NOTES:
1 ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED





OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

DRAWN BY

DESIGNED BY

APPROVED BY

DRG NO.

REVISION

DATE

DESCRIPTION

SCALE

1:200 (A1)

1:200 (A2)

OCT. 2018

PROPOSED CROSS SECTION

AT INTERVAL OF 25.00m

FROM CHAINAGE 429+075 TO

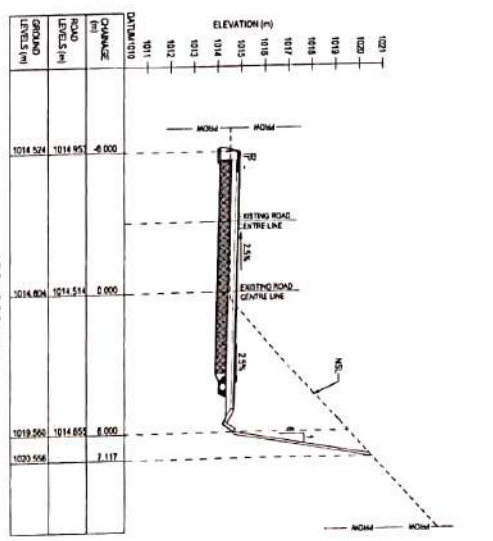
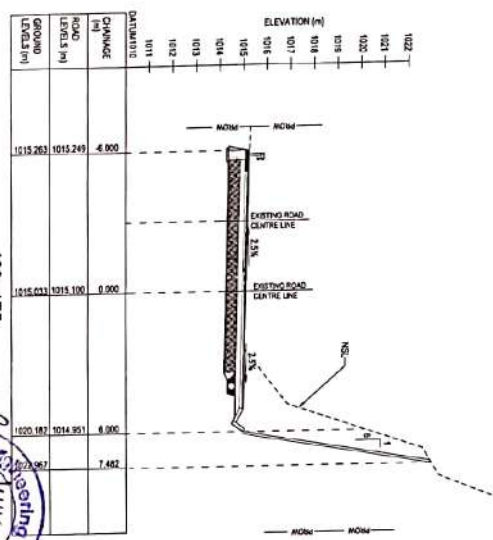
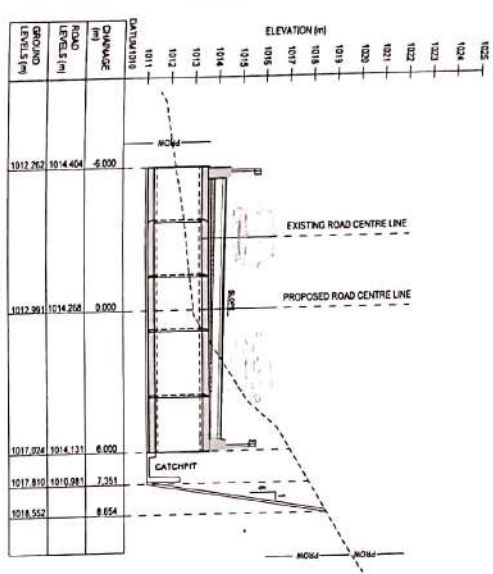
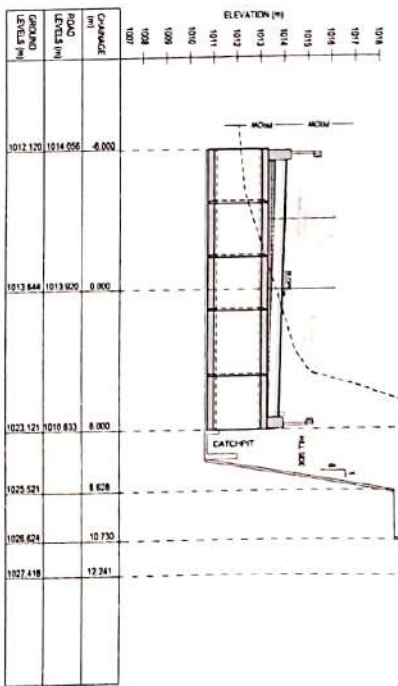
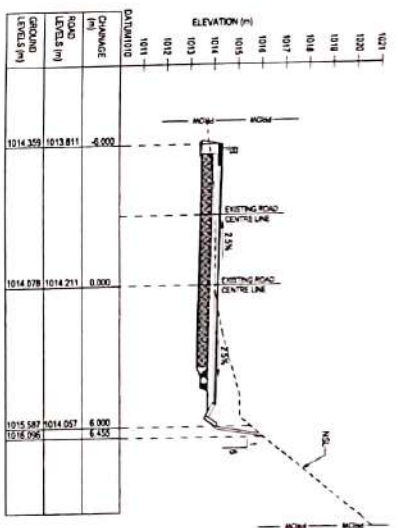
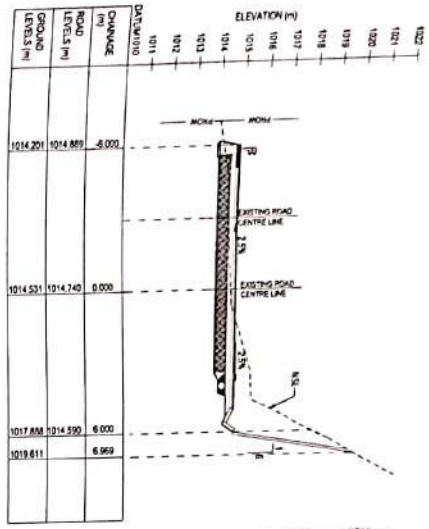
429+125

CPROD/CSS/030

R-0

NOTES

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED



OWNER ENGINEERING

National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:

PMU

MANOMAY ENGINEERS

PVT. LTD. MEPL

EPIC CONTRACTOR

DESIGN

NRG INFRASTRUCTURE LTD.

PROOF CONSULTANT:

KOC GLOBAL CONSULTANTS PVT. LTD.

301 Kallang Road, 11th Floor

Singapore 110155

www.kocglobal.com

PROJECT:

CONSTRUCTION & UPGRADE FOR EXISTING ROAD FROM CHANGING 429+150 TO CHANGING 429+275, KM 458.800 TO KM 459.475 AND KM 464.425 TO KM 464.525 OF NH-07 UNDER CHAROHAH PARVATIYA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PG-III)

REV

DATE

DESCRIPTION

DRAWN BY AS

DESIGNED BY SK

APPROVED BY DK

SCALE 1:200 (A1)

TITLE

PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHANGING 429+150 TO 429+275

DRG NO CPM/CDS/031

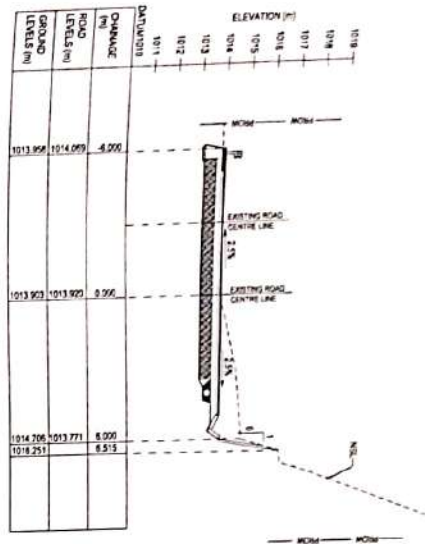
REVISION R.O

DATE

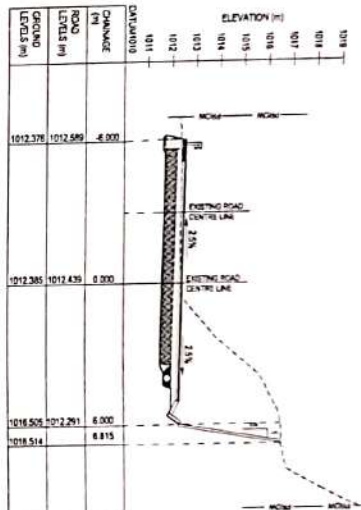
DESCRIPTION

SCALE 1:200 (A1)

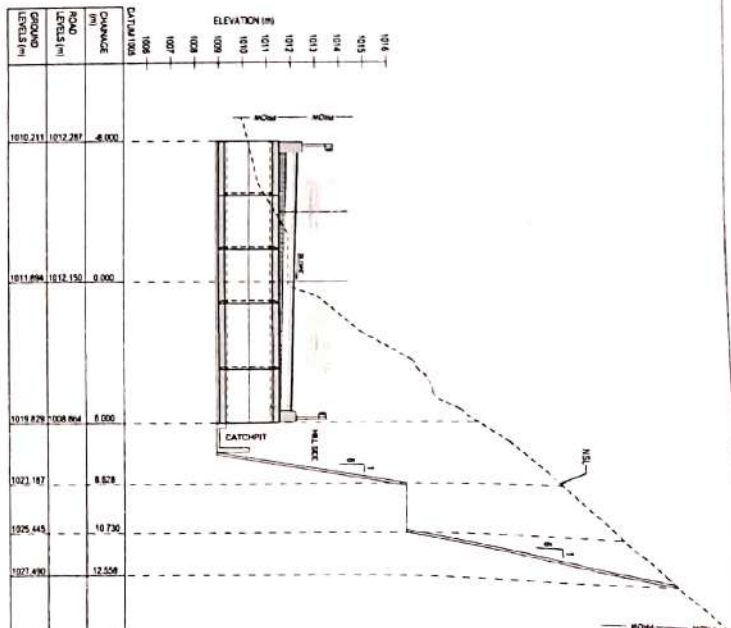
REVISION R.O



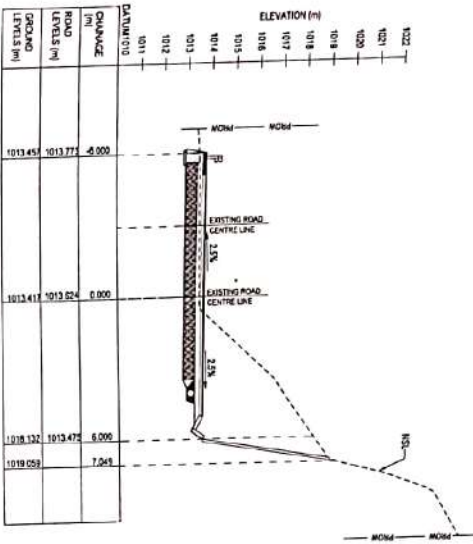
429+375



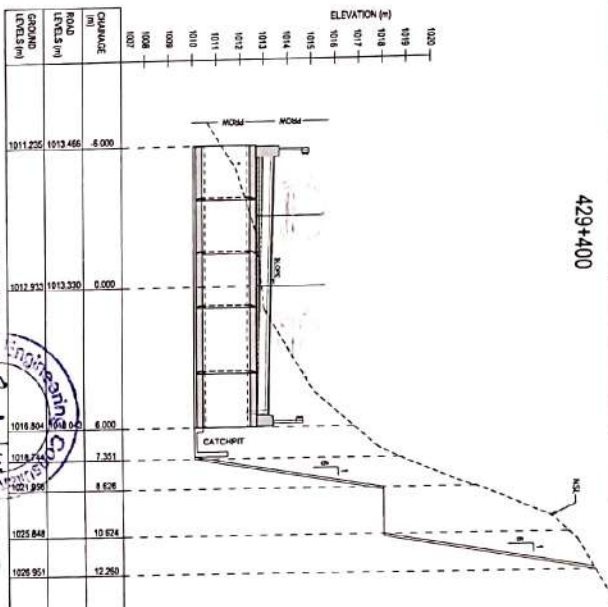
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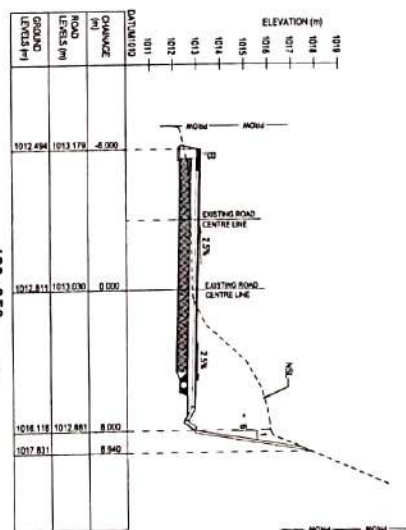
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429+300

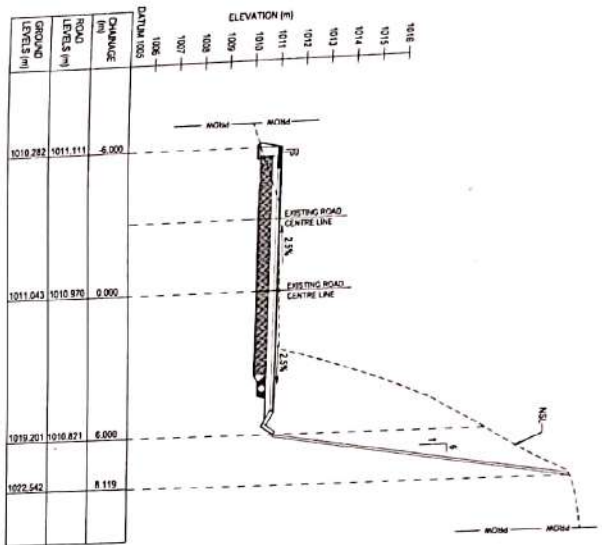


429+325

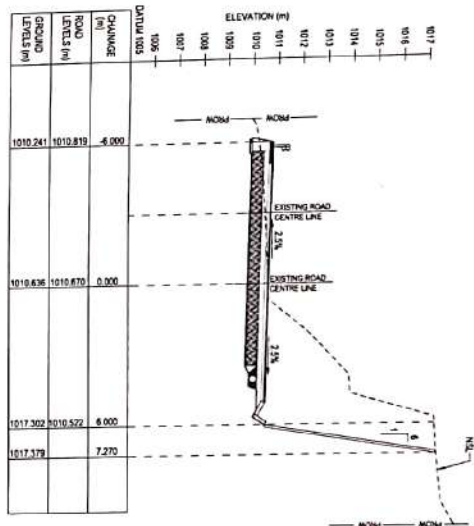


429+350

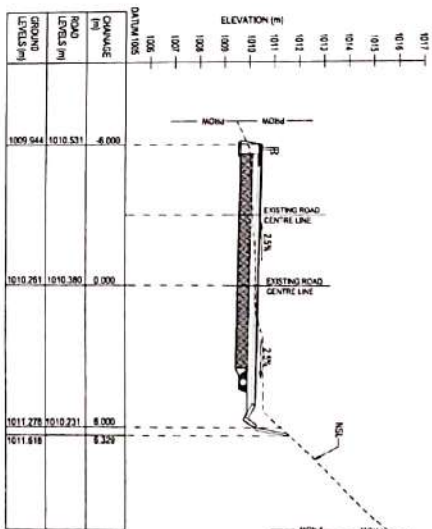
OWNER ENGINEERING National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT MME SAFETY ENGINEERS PVT. LTD.		EPC CONTRACTOR NAG INFRASTRUCTURE LTD.	
PROFESSIONAL CONSULTANT KODGLOBAL CONSULTANTS PVT. LTD. B1, Kalinga Sector 14, Gurgaon, Haryana, India 122007 Email: kodglobal@gmail.com		PROJECT CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 433.000 TO KM 483.000 OF NH 429. THE ROAD IS 4.37775 KM X 4.58 800 TO KM 459.475 AND KM 464.425 TO KM 484.5251 OF NH-429 UNDER CHAROHAN PARYOJANA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PG-III)			
REV	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	APPROVED BY
			AS	SK	DK
			SCALE	1:100 (A1)	1:200 (A2)
			REVISION	R.O.	
			TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHAINAGE 429+300 TO 429+425 DRG NO: C/P/ROAD/CS/032 OCT-2018		



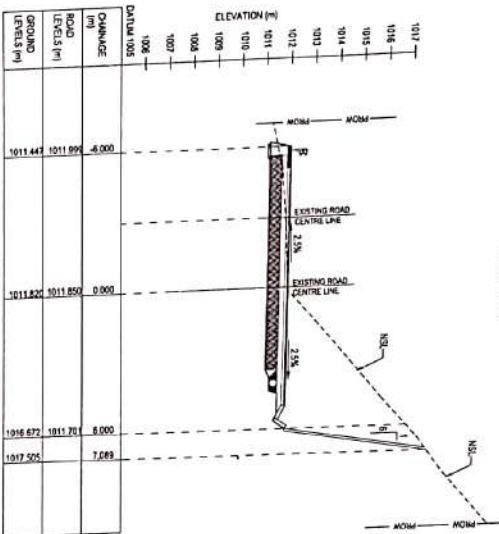
429+525



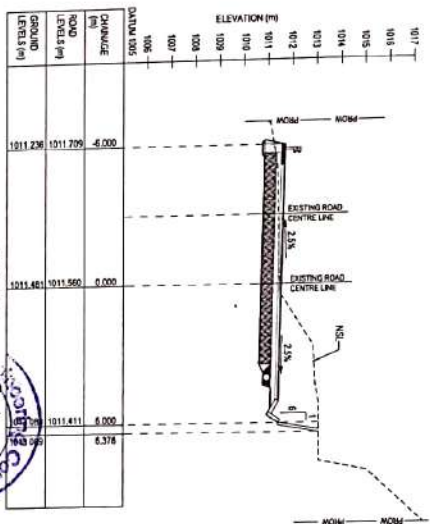
429+550



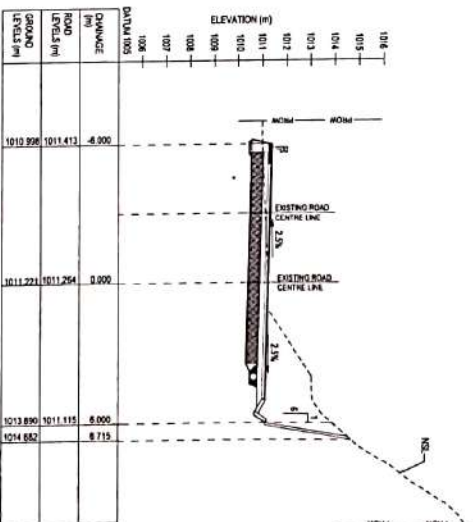
429+575



429+450



429+475



429+500

OWNER ENGINEERING

SAFETY CONSULTANT

EPIC CONTRACTOR

PROJECT CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

REVISION

R.O

DATE

2018

2018

National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

MANOMAY ENGINEERS PVT. LTD. MEPE

EPIC CONTRACTOR

PROJECT CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

REVISION

R.O

DATE

2018

2018

National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

MANOMAY ENGINEERS PVT. LTD. MEPE

EPIC CONTRACTOR

PROJECT CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

REVISION

R.O

DATE

2018

2018

National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

MANOMAY ENGINEERS PVT. LTD. MEPE

EPIC CONTRACTOR

PROJECT CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

REVISION

R.O

DATE

2018

2018

National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

MANOMAY ENGINEERS PVT. LTD. MEPE

EPIC CONTRACTOR

PROJECT CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

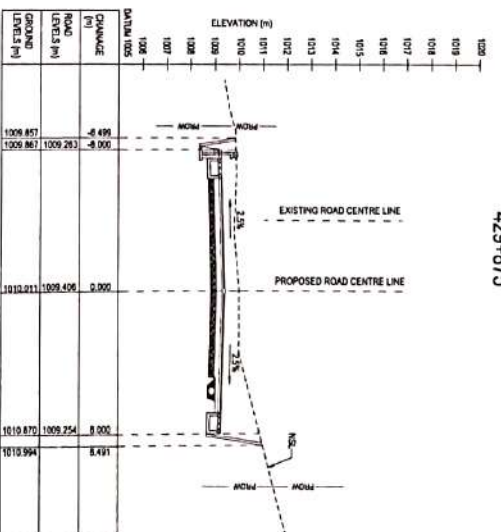
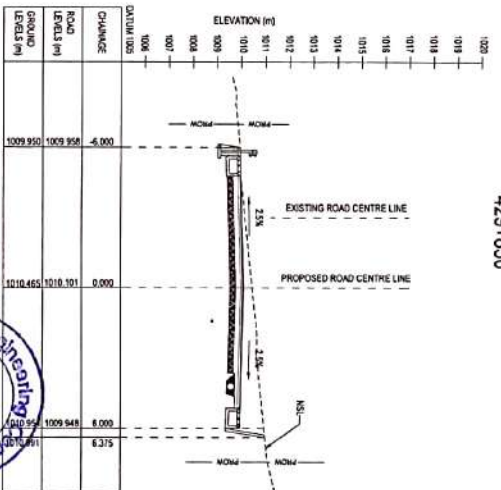
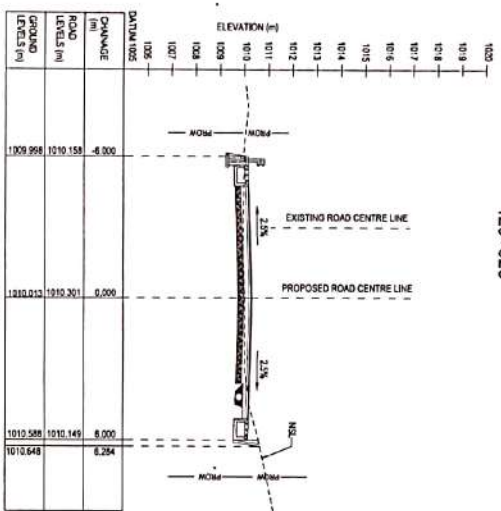
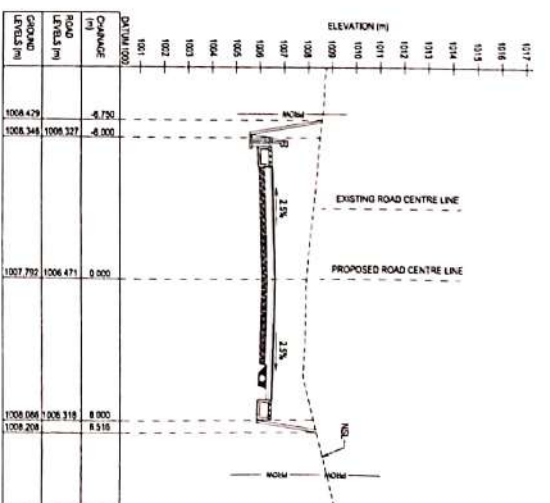
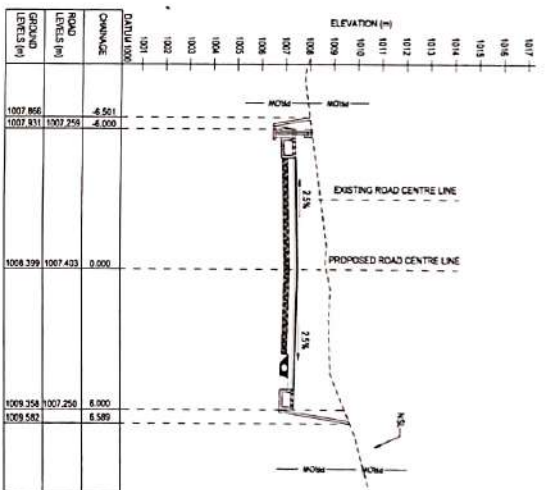
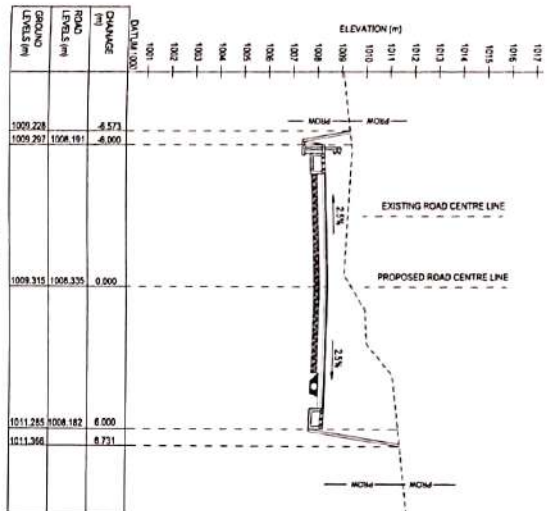
REVISION

R.O

DATE

2018

2018



OWNER ENGINEERING:



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:



EPIC CONTRACTOR:



PROJECT:



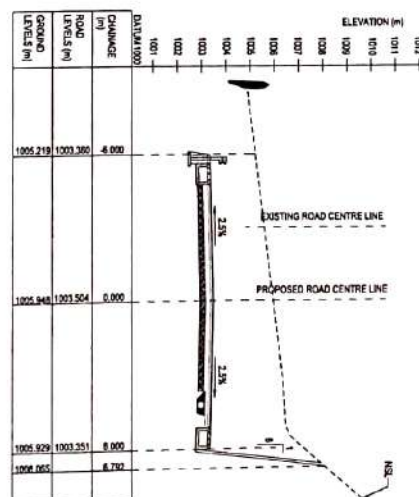
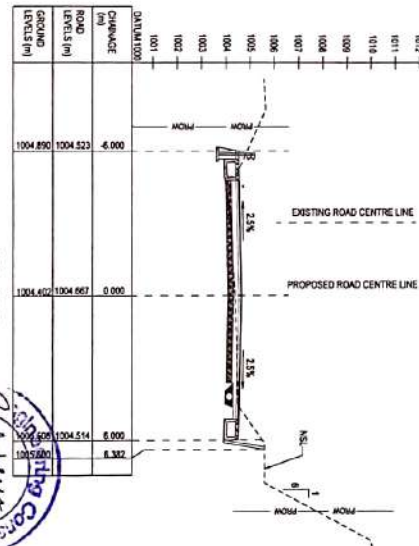
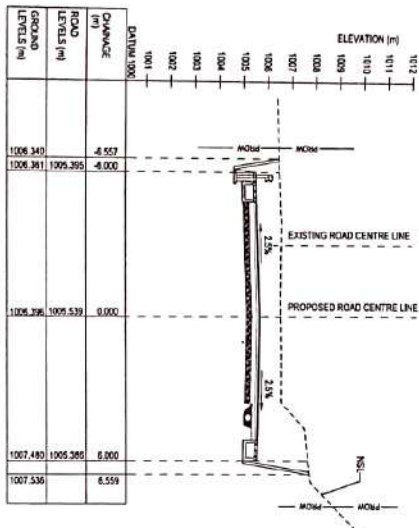
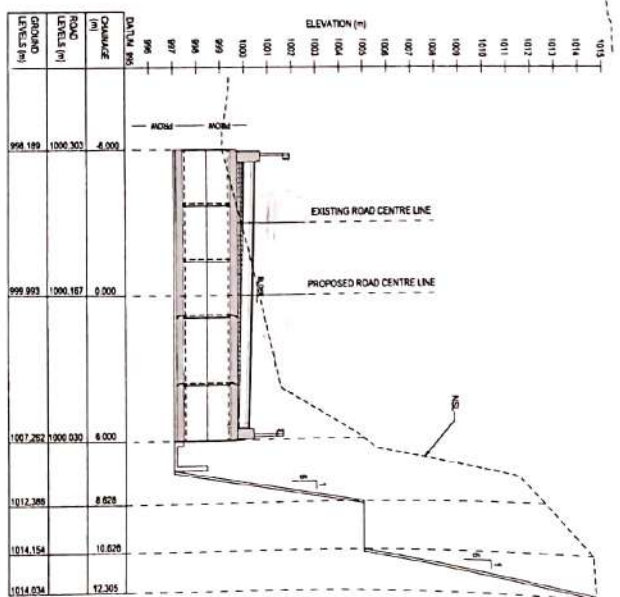
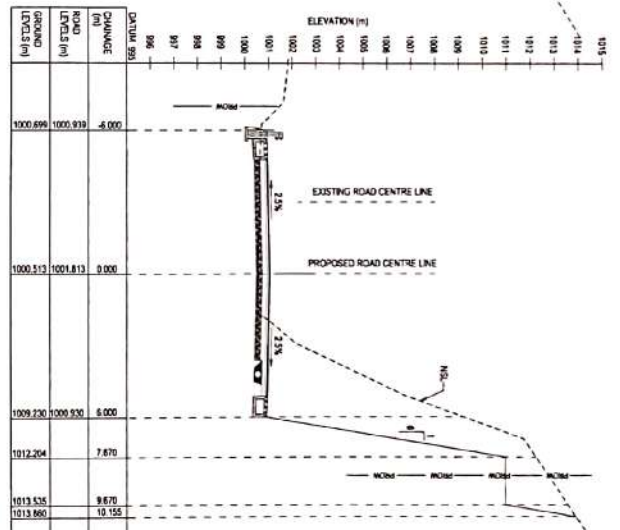
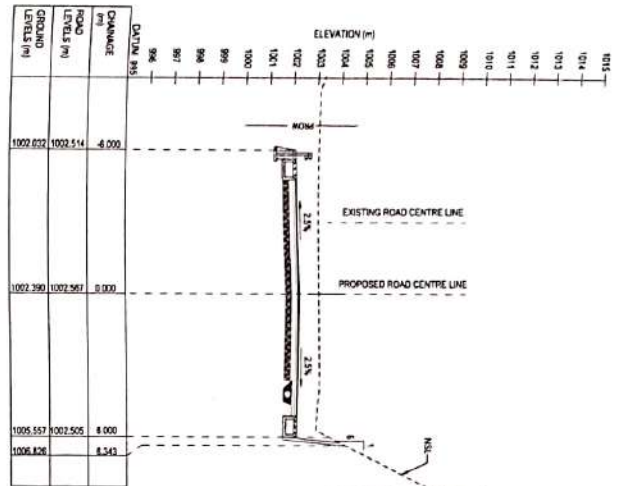
CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM ROAD NO. 429+750 TO ROAD NO. 429+875 (EXCLUDING KM 429+750 TO KM 429+775, KM 429+800 TO KM 429+825 AND KM 429+850 TO KM 429+875) OF NH-07 UNDER CHANDRAM PARROQUA ON EPIC BASIS IN THE STATE OF UTTARANCHAL (PKG-III)

REV	DATE	DESCRIPTION

DRAWN BY:	AS
DESIGNED BY:	SK
APPROVED BY:	DK
SCALE:	1:100 (A1) 1:200 (A2)

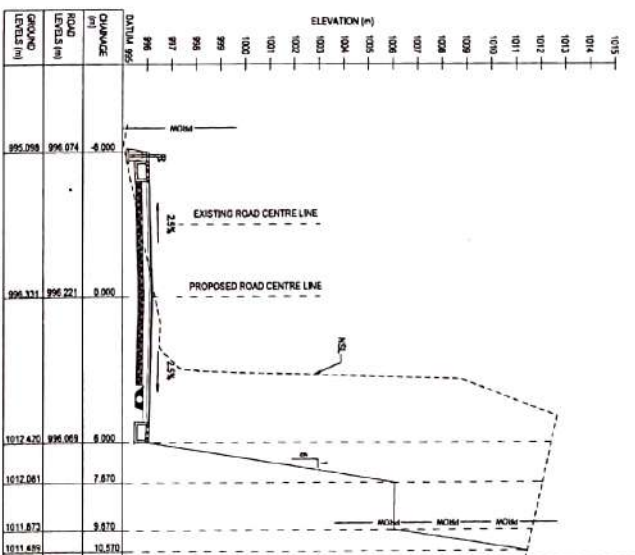
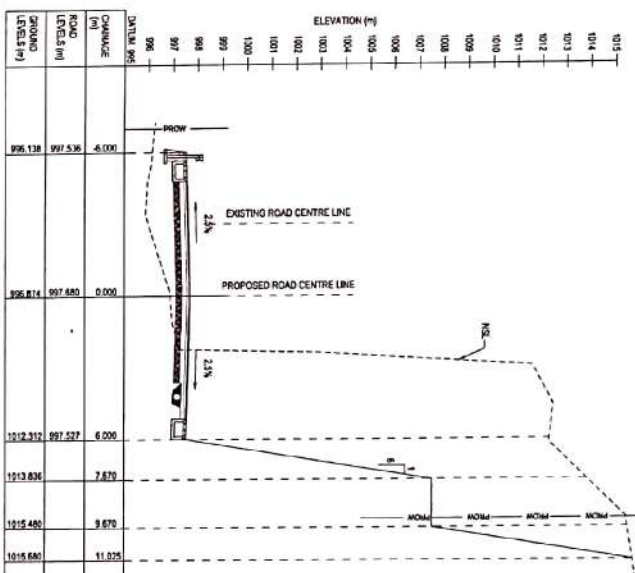
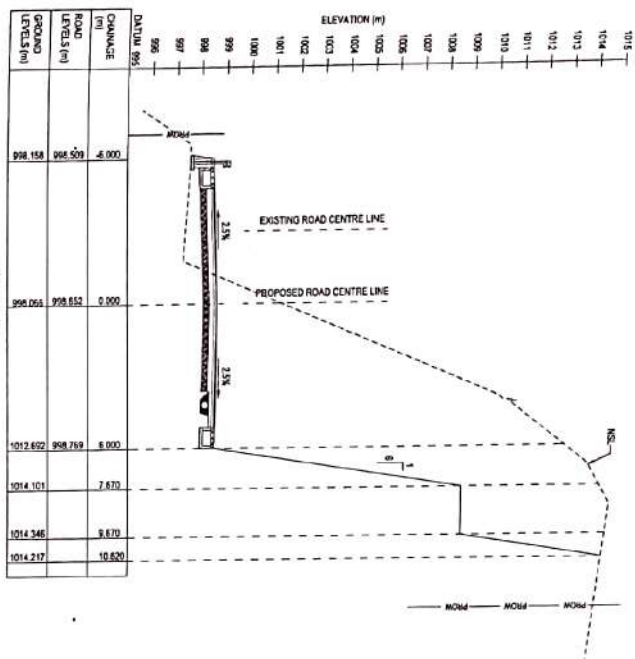
TITLE:	PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHAINAGE 429+750 TO 429+875
DWG NO.:	CPROAD/CSC/035
REVISION:	R-0
DATE:	OCT-2018

NOTES: 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED



NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

OWNER ENGINEERING: National Highway & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT: MAHOMAY ENGINEERS PVT LTD MEPL		EPC CONTRACTOR: KNS INFRASTRUCTURE LTD.	
PROOF CONSULTANT: KOC GLOBAL CONSULTANTS PVT. LTD. 30, Kumbha Sagar 4, Durgam Cheruvu, Hyderabad 500017, India New Delhi: 434710075 www.kocglobal.com		PROJECT: CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 438.000 OF CHANDOLU TO PAUNI (EXCLUDING KM 437.625 TO KM 437.775) NH-435/30 NH-407 UNDER CHANDOLU PARVATHI ON EPC BASIS IN THE STATE OF UTTARAKHAND (P&C-II)			
REV	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	APPROVED BY
			AS	SK	DK
SCALE: 1:100 (A1) 1:200 (A2)			TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHAINAGE 429+900 TO 430+025 DRG NO.: CP/ROAD/CS/038 REVISION: R-0		



OWNER ENGINEERING:

SAFETY CONSULTANT:

EPC CONTRACTOR:

PROJECT CONSULTANT:

PROJECT:

CONSTRUCTION & RECONSTRUCTION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANDRA TO PANNI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.600 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHANDRAHAR PARIWASH, ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKC-III)

REV

DATE

DESCRIPTION

DRAWN BY AS

DESIGNED BY SK

APPROVED BY DK

SCALE: 1:100 (A3) 1:200 (A2)

REVISION: R-0

OCT 2018

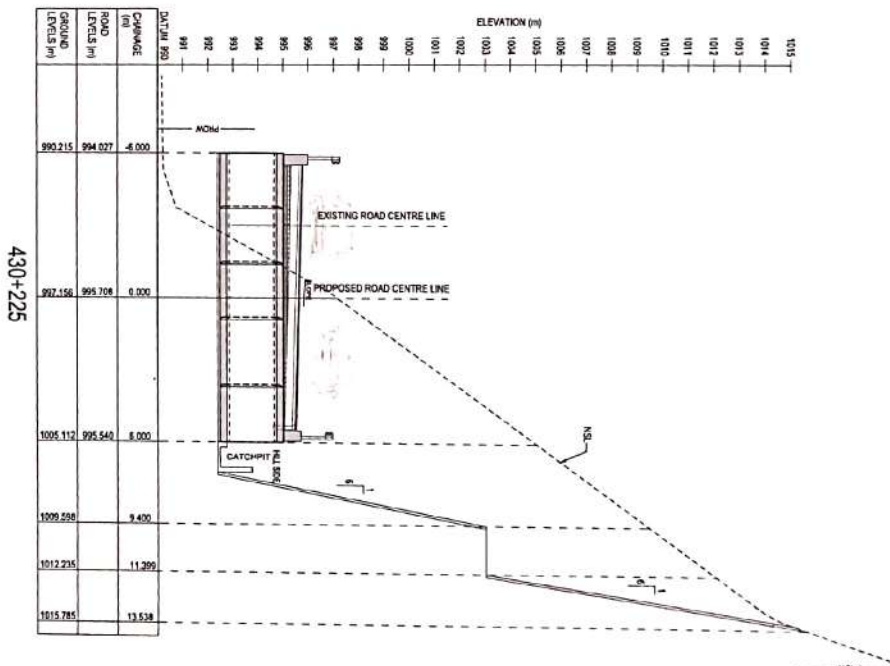
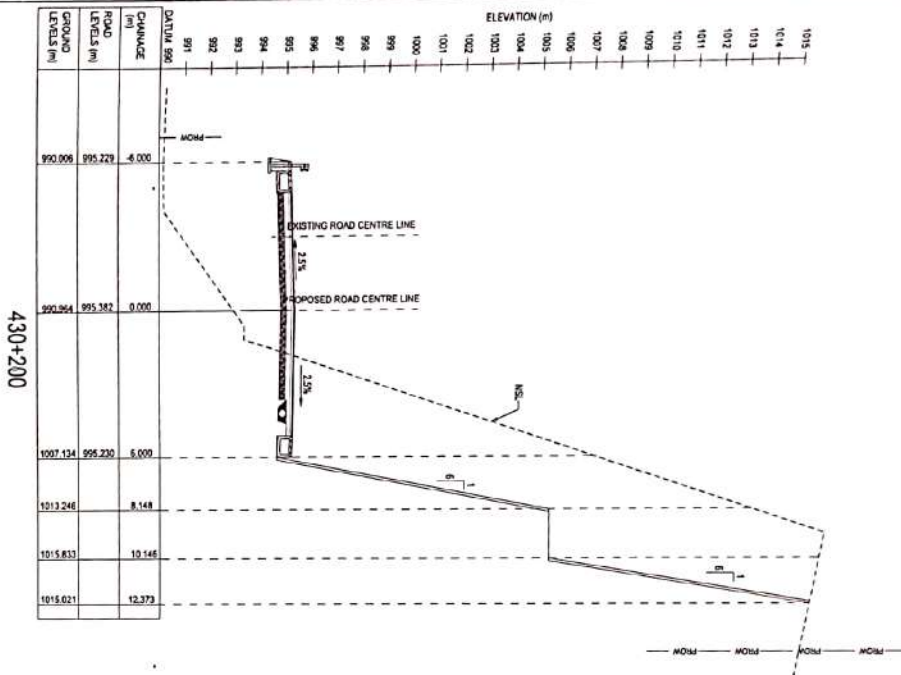
NOTES: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 430+050 TO 430+100

DRG NO: CPROAD/CSD/07

REVISION: R-0

OCT 2018



NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

OWNER ENGINEERING:
National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:
MAHAKAL ENGINEERS
PVT. LTD. MEPL

EPC CONTRACTOR:
S. K. K. INFRASTRUCTURE LTD.

PROJECT CONSULTANT:
KPC GLOBAL CONSULTANTS PVT. LTD.
301, 3rd Floor, Sector 14, D-2, Gurgaon, Haryana, India-122002
www.kpcglobalconsultants.com

PROJECT:
CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD WITH PAVED SHOULDER FROM KM 430.000 TO KM 463.000 OF CHANOLI TO PAUNI (EXCLUDING KM 432.625 TO KM 437.775, KM 438.800 TO KM 439.475 AND KM 444.425 TO KM 454.525) OF NH-07 UNDER CHANDRAVATI PARIYOJANA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PHG-III)

REV	DATE	DESCRIPTION

DRAWN BY: AS
DESIGNED BY: SK
APPROVED BY: DK
SCALE: 1:100 (A1)
1:200 (A2)

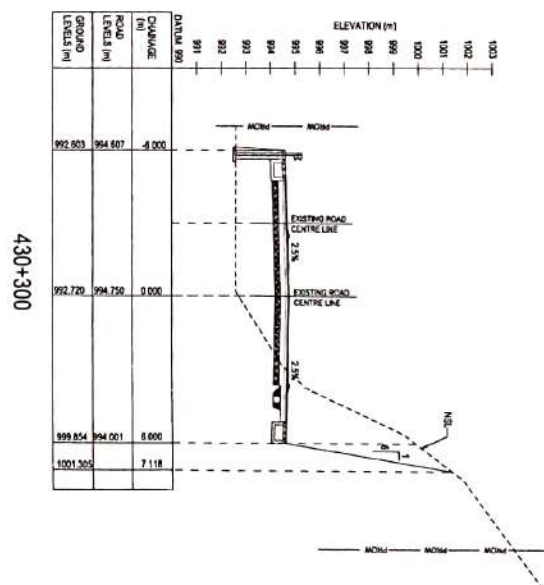
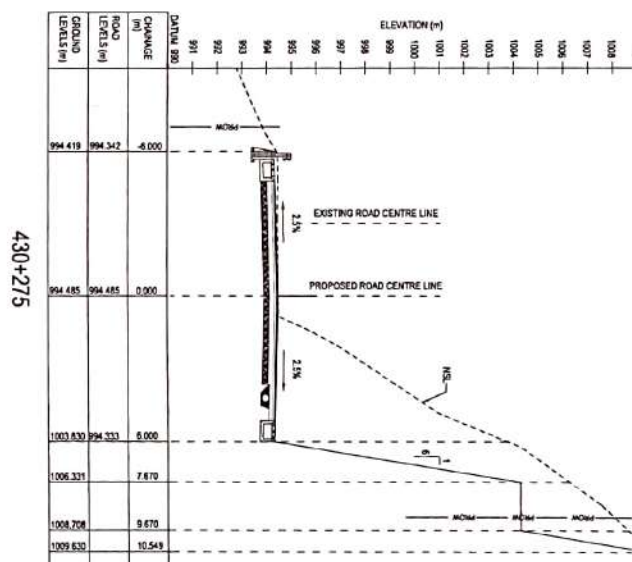
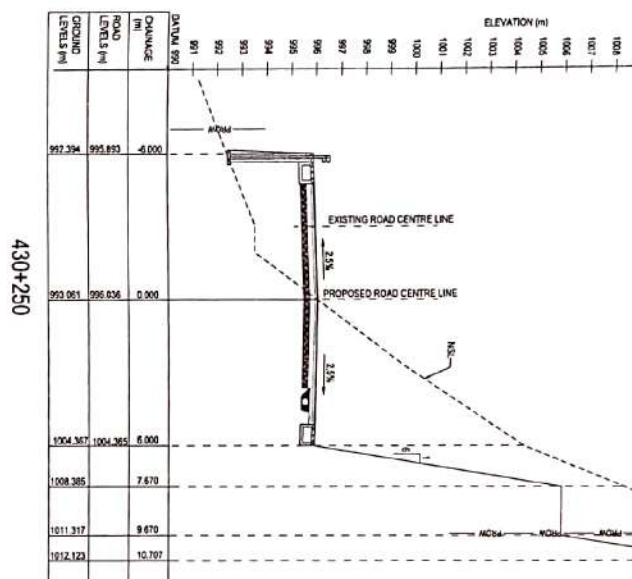
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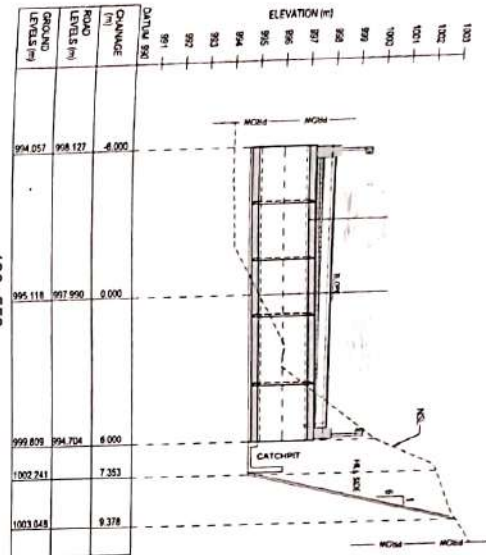
DRG NO.: CPMO/DCS/039

REVISION: R-0

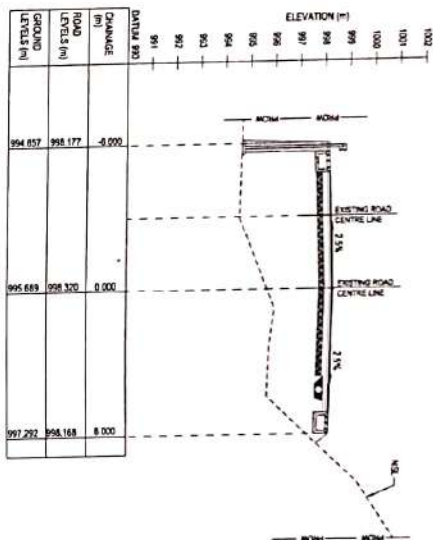
DATE: OCT. 2018

 OWNER ENGINEERING		 SAFETY CONSULTANT MANOMAY ENGINEERS PVT. LTD. PLOT 14 MEH		 EPC CONTRACTOR NKG INFRASTRUCTURE LTD.		 PROJECT CONSULTANT KOC GLOBAL CONSULTANTS PVT. LTD. 301 Building, Sector 14, Durgam New Delhi, Delhi 110075 www.kocglobal.com	
PROJECT CONSTRUCTION & UPGRADEATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM [EXCLUDING KM 437.655 TO KM 437.775, KM 458.990 TO KM 459.475 AND KM 464.425 TO KM 464.525] OF NH-47 UNDER CHANDRAM PARYADANA ON EPC BASIS IN THE STATE OF UTTARANCHAL (P&G-II)		DRAWN BY AS		TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE +250 TO 4390+300			
DESIGNED BY SK		APPROVED BY SK		DRG NO. : CP/CD/CS/140			
SCALE : 1:100 (A1) 1:200 (A2)		REVISION : R-0		DATE : OCT-2018			

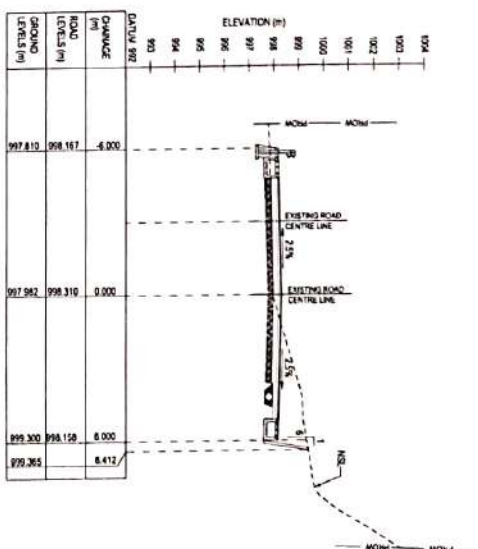




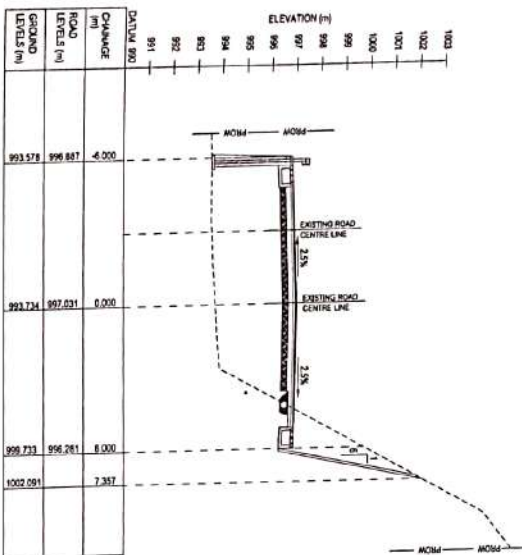
430+550



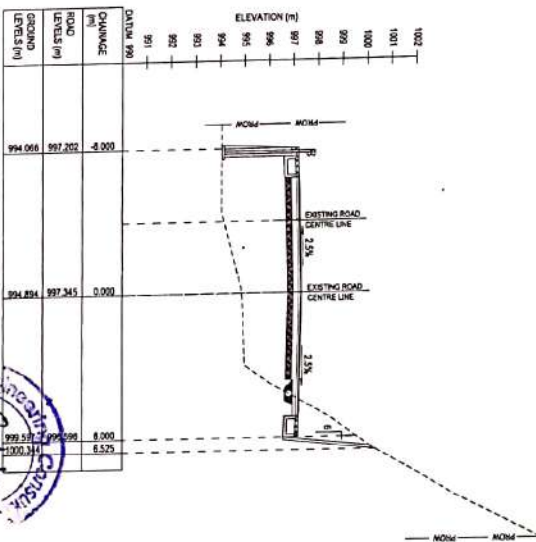
430+575



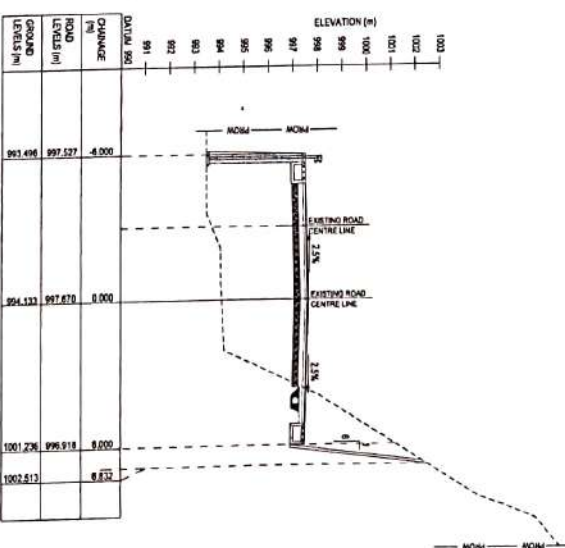
430+600



430+475



430+500



430+525

NOTES: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

OWNER ENGINEERING

SAFETY CONSULTANT:

EPC CONTRACTOR:

PROOF CONSULTANT:

PROJECT:

REVISION

SCALE:

TITLE:

DATE:

National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

MANOJAV ENGINEERS PVT LTD MEPL

NHG INFRASTRUCTURE LTD.

KOC GLOBAL CONSULTANTS PVT. LTD. 301, Park Road, Sector 14, Durgam Cheruvu, Hyderabad - 500017, India

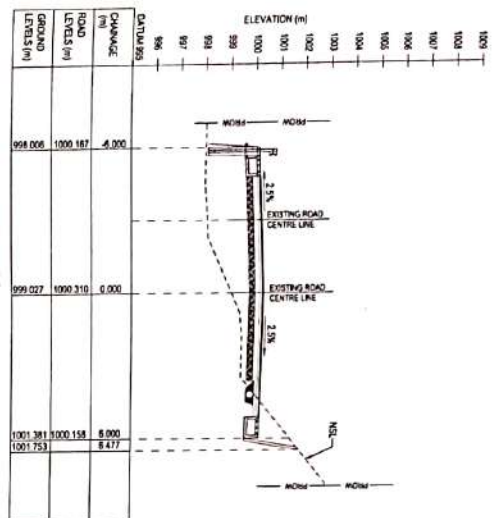
CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDER FROM CHAINAGE 430+475 TO 430+600 (EXCLUDING KM 430+475 TO 430+485) TO KM 439+475 AND KM 434+425 TO KM 444+525 OF NH-07 UNDER CHAROHAM PARITYOJA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-III)

REV DATE DESCRIPTION

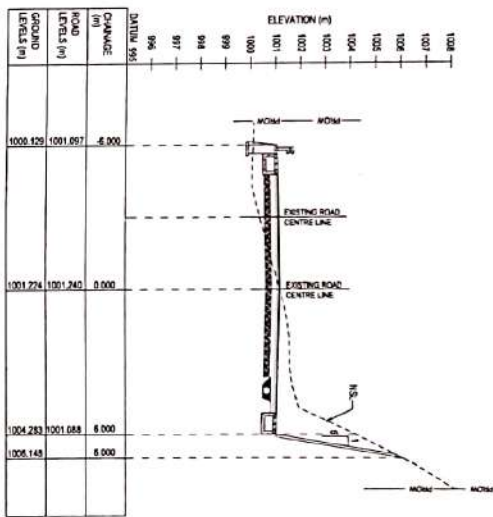
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DRG. NO. CP/ROAD/CS/042 REVISION R-0

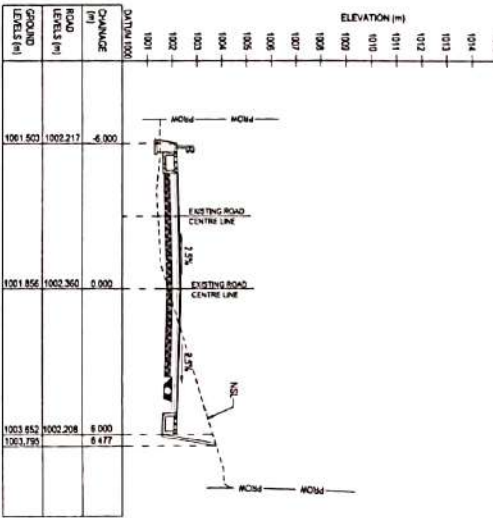
OCT-2018



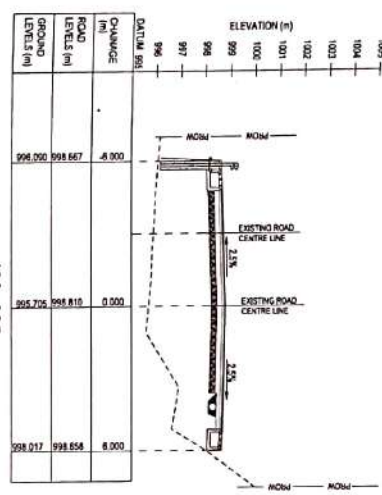
430+700



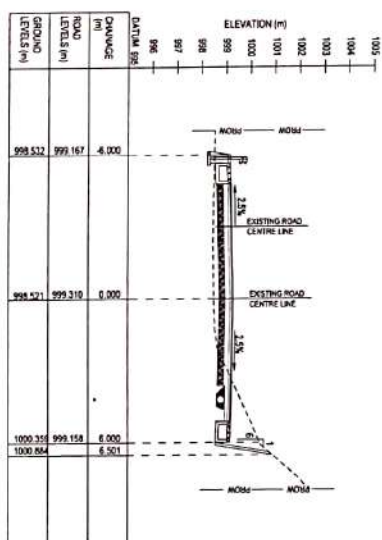
430+725



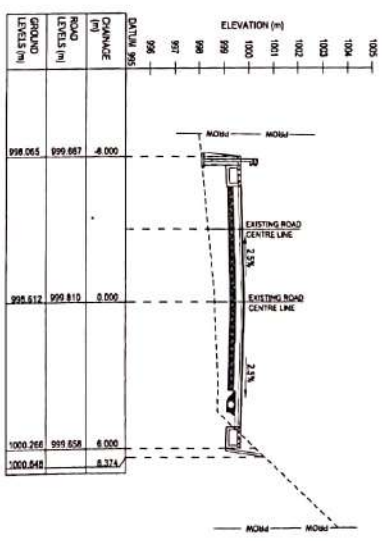
430+750



430+625



430+650



430+675

OWNER ENGINEERING: SAFETY CONSULTANT: EPC CONTRACTOR: PROJECT: CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 488.000 OF CHANOLI TO PANI (EXCLUDING KM 437.025 TO KM 437.775, KM 458.800 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHANDHAM PARVOLA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKC-II)

NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (NHIDCL)

MANDAKI ENGINEERS PVT. LTD. MEPL

NKG INFRASTRUCTURE LTD.

KDC GLOBAL CONSULTANTS PVT. LTD.

KDC Global Consultants Pvt. Ltd.

PROJECT: CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 488.000 OF CHANOLI TO PANI (EXCLUDING KM 437.025 TO KM 437.775, KM 458.800 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHANDHAM PARVOLA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKC-II)

REV DATE DESCRIPTION

SCALE 1:100 (A3) 1:200 (A2)

APPROVED BY DK

DESIGNED BY SK

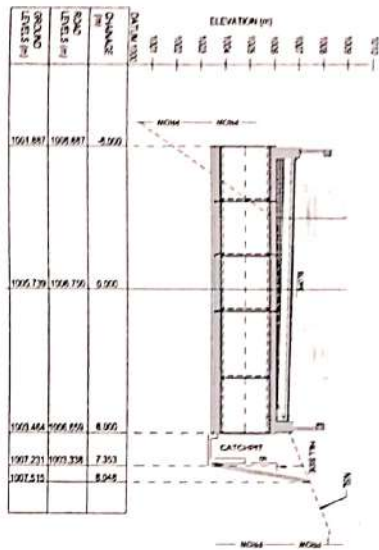
DRAWN BY AS

DRG NO. CP/ROAD/CS/043

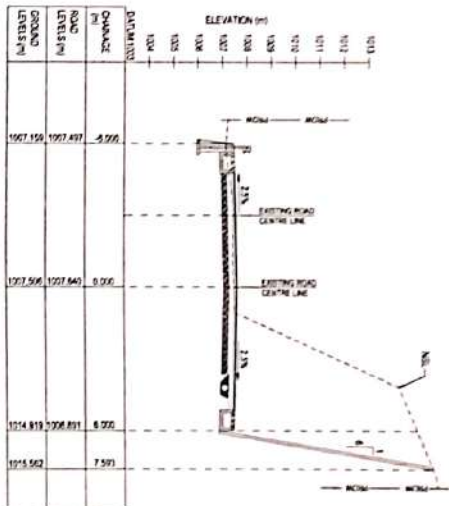
REVISION R-0

OCT-2018

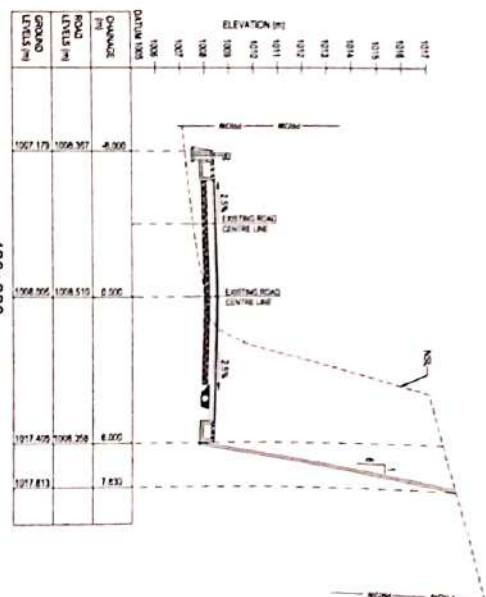
TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 430+750



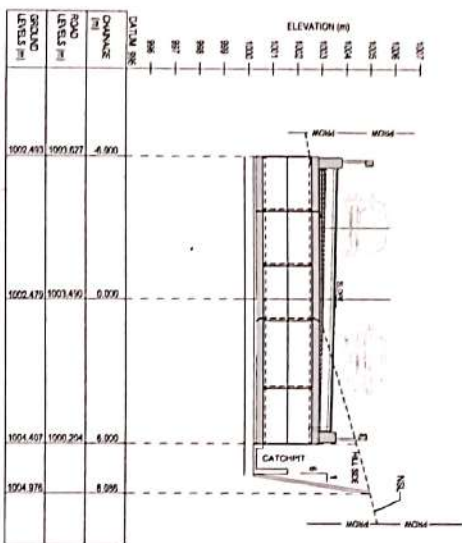
430+850



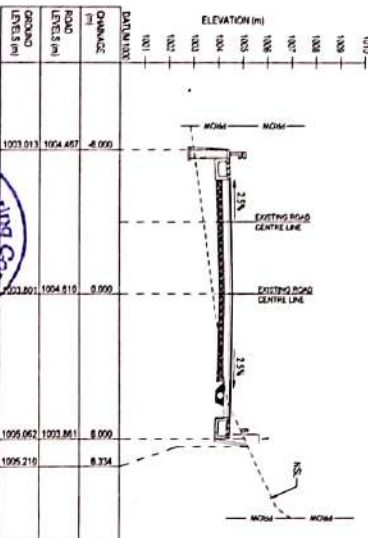
430+875



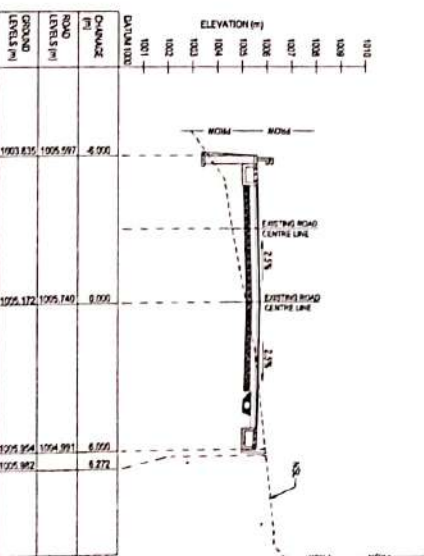
430+900



430+775



430+800



430+825

OWNER ENGINEERING:



Ministry of Transport and Infrastructure Development Corporation Ltd (MIDCD)

SAFETY CONSULTANT:



BME ENGINEERS
PVT. LTD. MSF

EPC CONTRACTOR:



NKG INFRASTRUCTURE LTD.

PROJECT CONSULTANT:



KGS GLOBAL CONSULTANTS PVT. LTD.
311, K. S. Road, Sector 4, Durgam
Chowk, New Delhi 110015
www.kgsconsultants.com

PROJECT: CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430+000 TO KM 430+000 OF CHANOLI TO PANI (EXCLUDING KM 437+000 TO KM 437+775, KM 438+000 TO KM 439+475 AND KM 434+425 TO KM 434+525) OF NH-07 UNDER CHANDANAH PARITONIA (ON EPC BASIS IN THE STATE OF UTTARAKHAND (PNC-II))

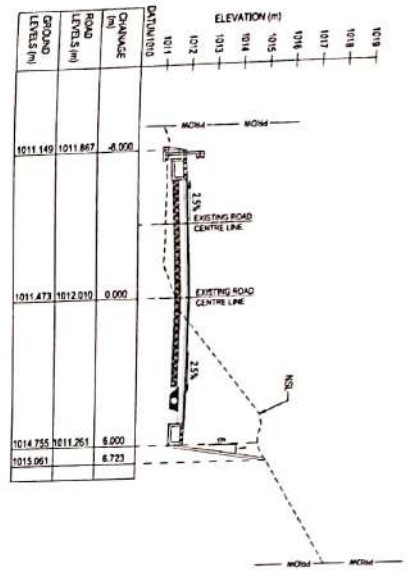
REV. DATE DESCRIPTION

DESIGNED BY: AS
APPROVED BY: SK
SCALE: 1:100 (AT)
1:200 (AS)

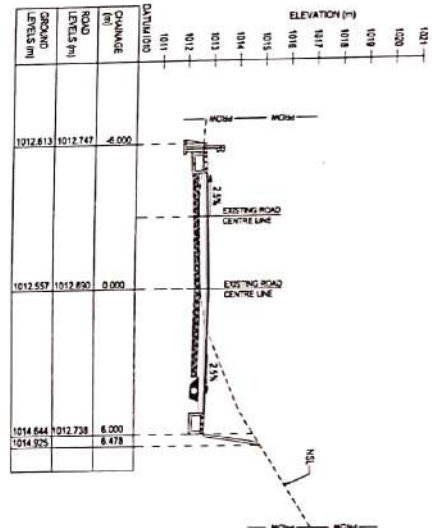
DRG NO.: CP/ROADS/043
REVISION: R-0
OCT-2018

NOTES: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

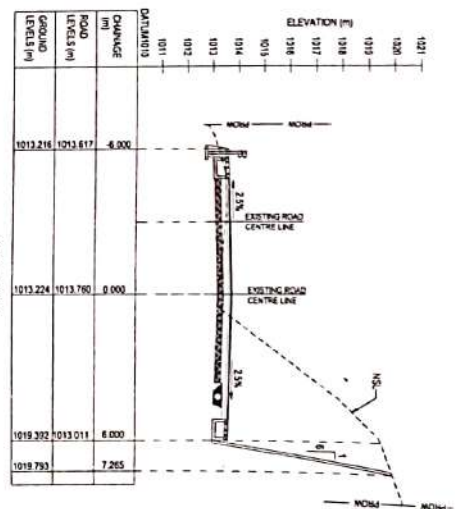
TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 430+775 TO 430+900



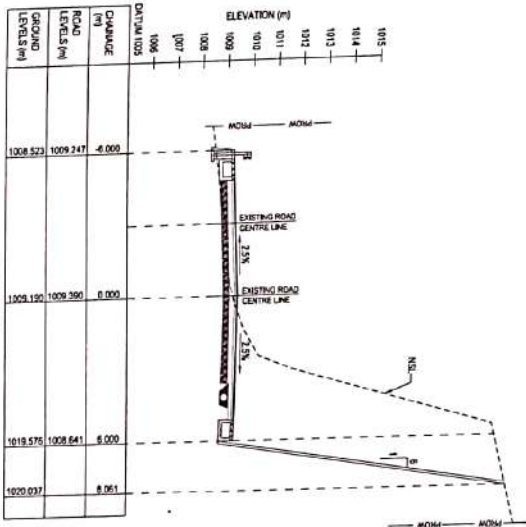
431+000



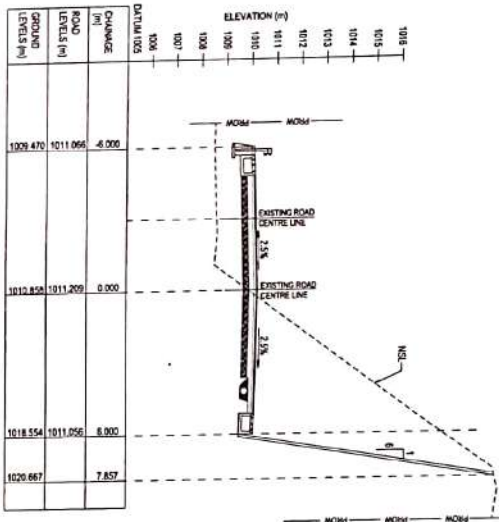
431+025



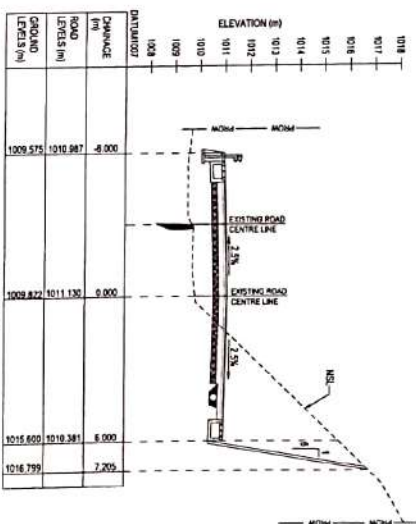
431+050



430+925



430+950



430+975

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

(REV)

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A3)

REVISION

R-D

OCT-2018

NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

TITLE

PROPOSED CROSS SECTION

AT INTERVAL OF 25.00m

FROM CHAINAGE 430+925 TO

431+050

DWG. NO.

CPR/0405/044

DESIGNED BY

SK

APPROVED BY

DK

1:100 (A1)

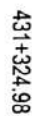
1:200 (A3)

OCT-2018



OCT-

NOTES -
1 ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SPECIFIED



NOTES:

431+325

431+325

CP/HOAD/CS/048

REVISION - R-0

OWNER ENGINEERING



Development Corporation Ltd. (NHIDCL)

SAFETY CONSULTANT



PVTItd. MEPL

EPC CONTRACTOR:



Journal of Management Education 30(6)

PROOF-CONSULTANT



12

PROJECT

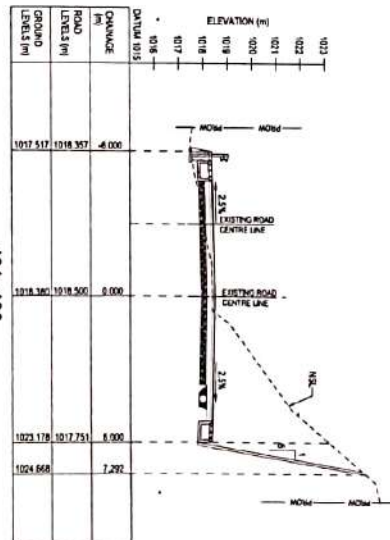
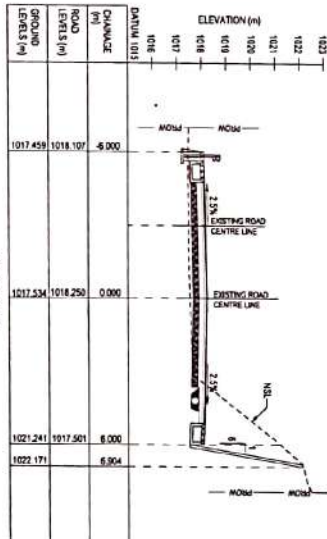
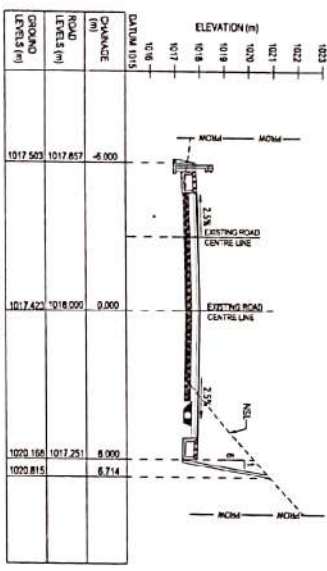
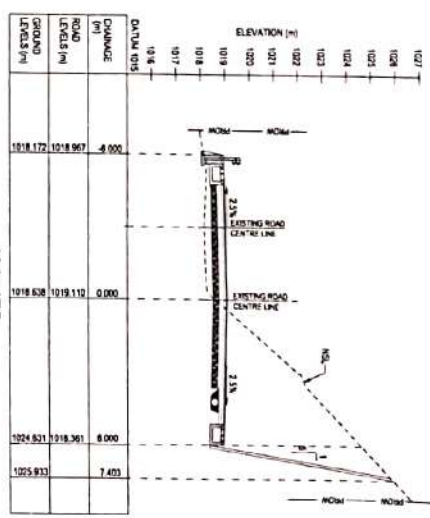
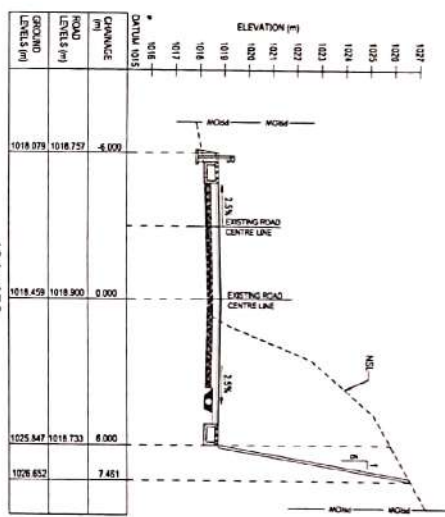
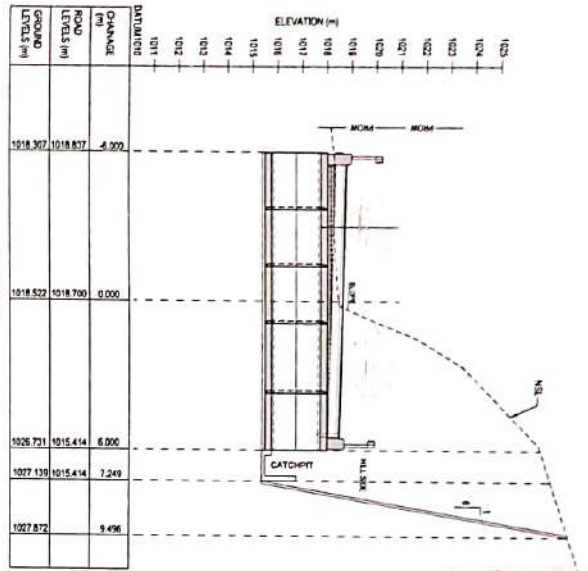
BASIS IN THE STATE OF UTTARAKHAND (PKG-III)

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DRAWN BY : AS

[illegible]

NOTES



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT: 1. IMPROVEMENT OF EXISTING ROAD TO STATE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANOLI TO PANI (EXCLUDING KM 437.525 TO KM 437.775, KM 459.800 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHAROHAN PARIYOLLA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PGC-III)

REV DATE DESCRIPTION

DRAWN BY AS

DESIGNED BY SK

APPROVED BY DK

DRG NO. CP/ROAD/CS-047

REVISION R-0

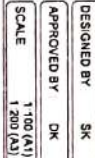
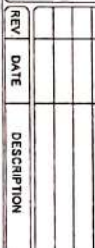
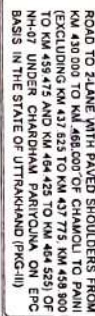
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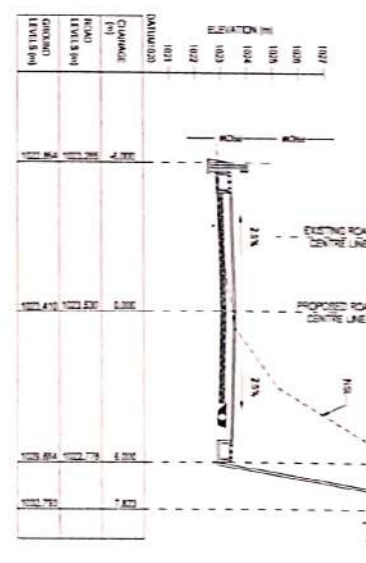
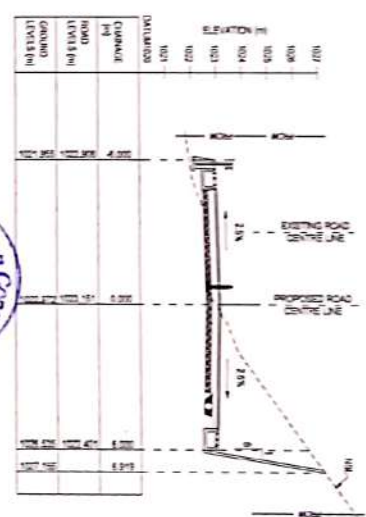
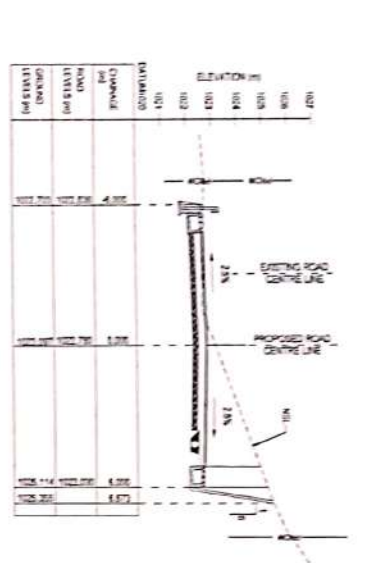
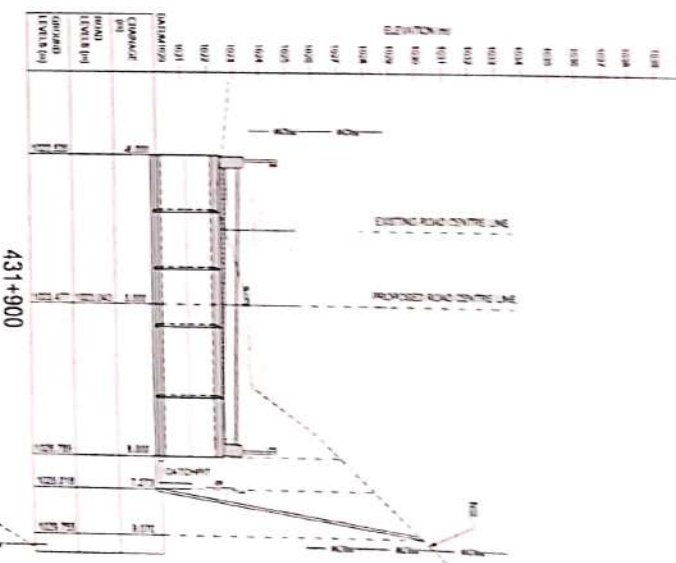
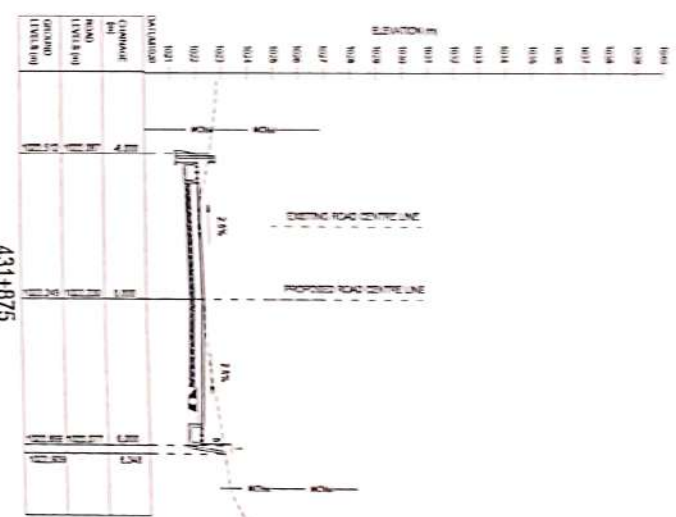
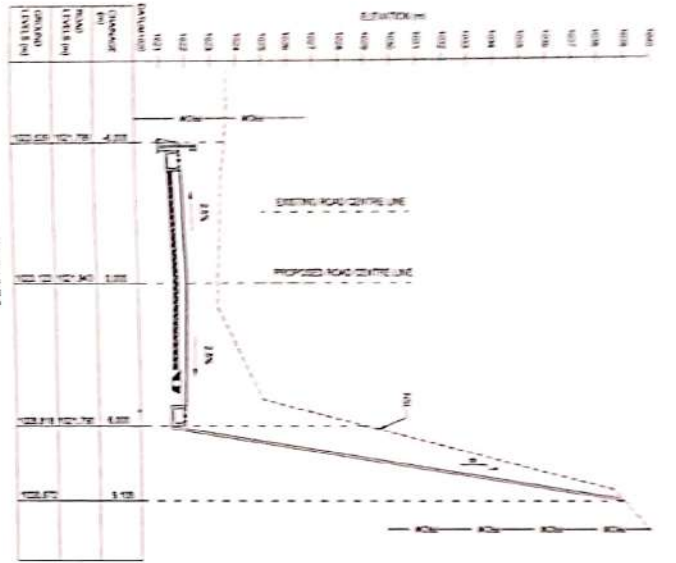
1:200 (A2)

OCT. 2018

TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 431+350 TO 431+475

NOTES: ALL DIMENSIONS ARE IN METRE UNLESS OTHERWISE SPECIFIED





OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT CONSULTANT

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A2)

REVISION R.O

OCT 2018

National Highway & Infrastructure Development Corporation Ltd. (NHIDCL)

MAHARAJA PRASAD

DESIGNER

PROJECT CONSULTANT

PROJECT CONSULTANT

PROJECT CONSULTANT

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A2)

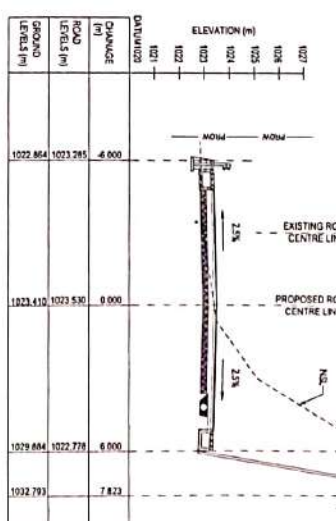
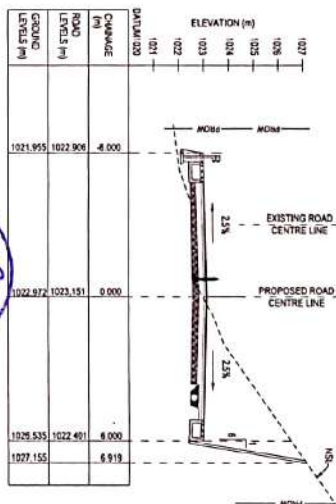
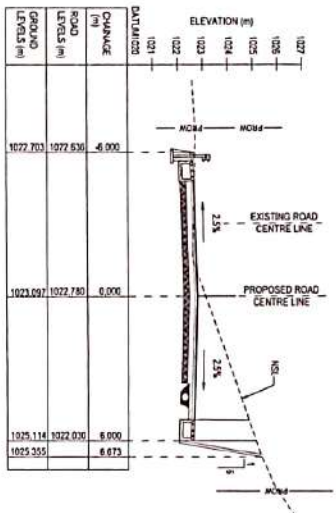
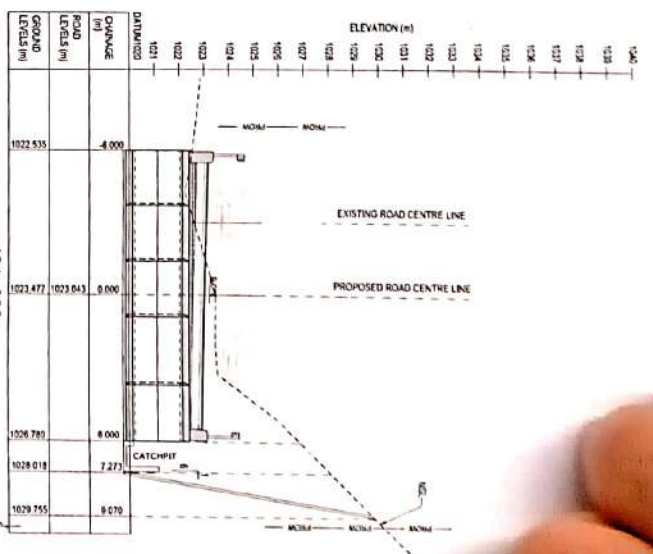
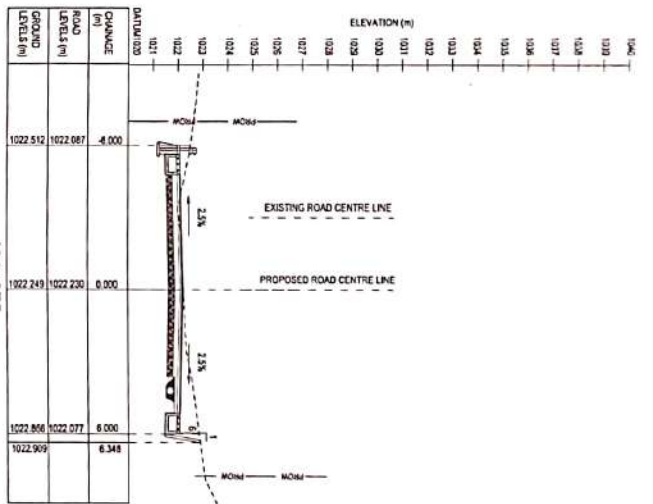
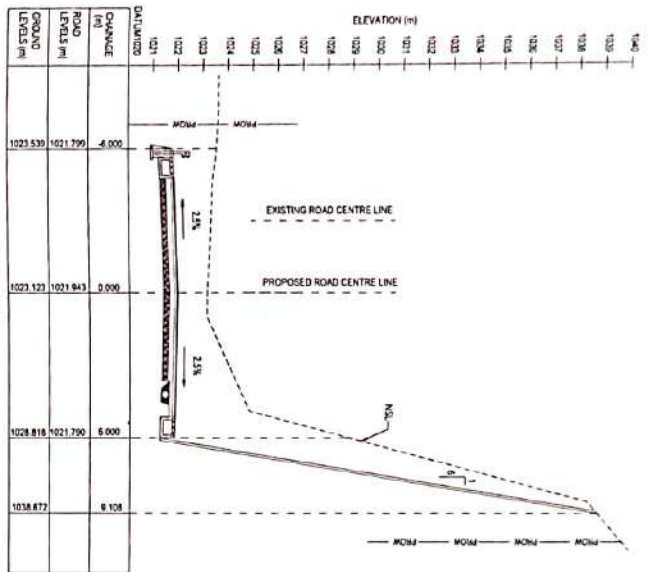
REVISION R.O

OCT 2018

NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

PROJECT CONSULTANT
AT INTERVAL OF 25.00m
FROM CHAINAGE 431+775 TO
431+900

PROJECT CONSULTANT
AT INTERVAL OF 25.00m
FROM CHAINAGE 431+775 TO
431+900



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAUQU TO PANAI (EXCLUDING KM 437.625 TO KM 437.775, KM 456.900 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHANDHAM PARVONA ON EPC BASIS IN THE STATE OF ULTRAHAND (PG-III)

REV DATE DESCRIPTION

DRAWN BY AS

TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 431+775 TO 431+900

DESIGNED BY SK

APPROVED BY DK

DWG NO C/PKADCS/050

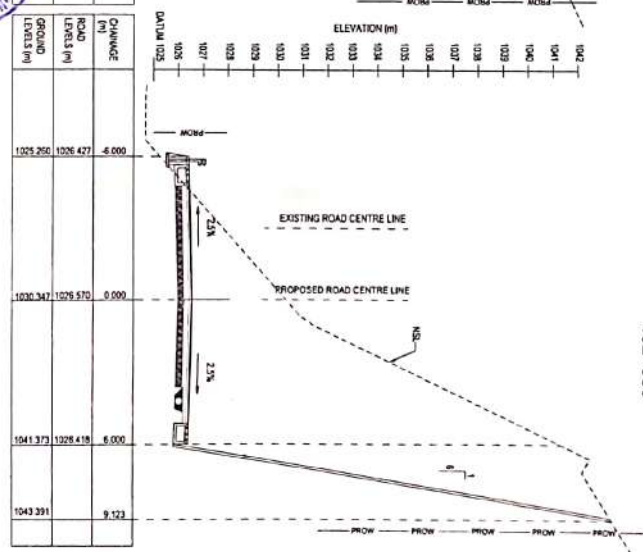
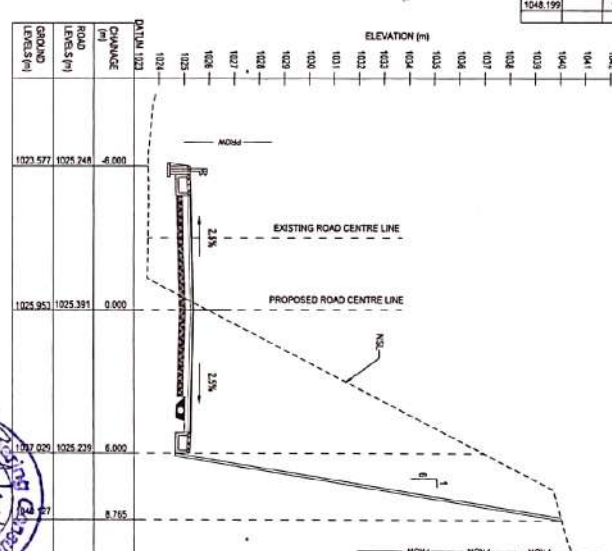
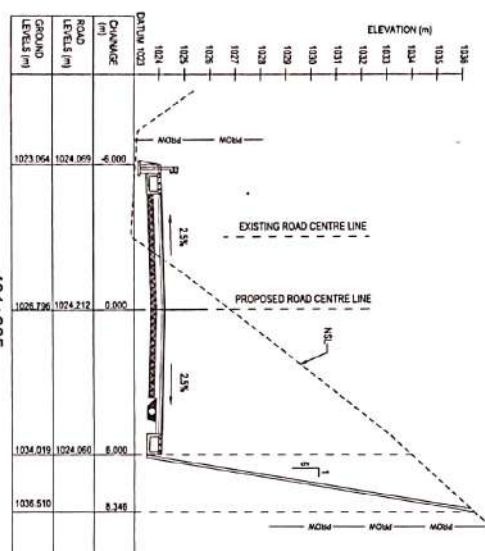
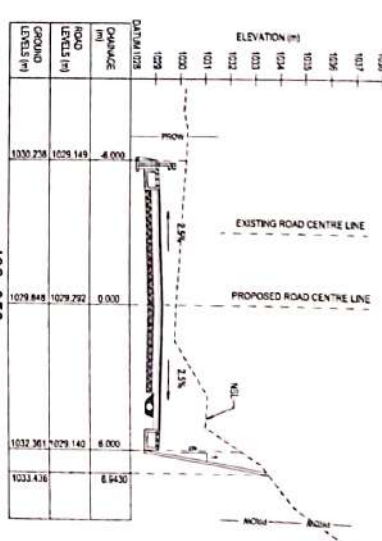
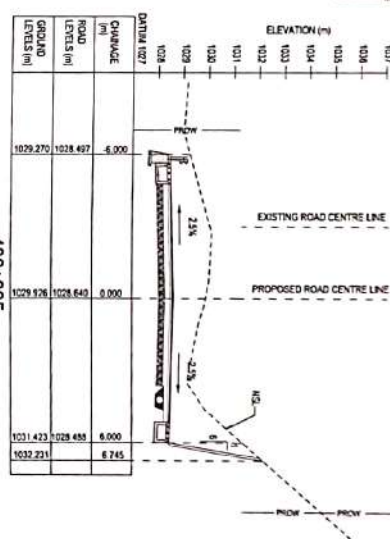
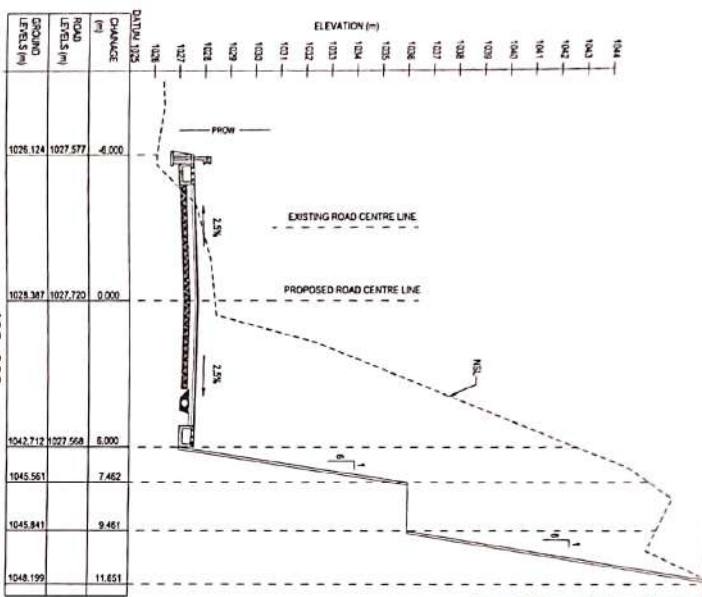
REVISION R-0

OCT-2019

SCALE 1:100 (A1) 1:200 (A2)

NOTES

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED



NOTES: 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

OWNER ENGINEERING :

SAFETY CONSULTANT :

EPC CONTRACTOR :

PROJECT CONSULTANT :

PROJECT :

DESIGNED BY :

TITLE :

FROM CHAINAGE 431+925 TO 432+050

APPROVED BY :

DWG NO. :

DATE :

SCALE :

REVISION :

OCT. 2018

Notional Highways & Infrastructure Development Corporation Ltd (NHIDCL)

MANOJAVI ENGINEERS PVT. LTD.

NAG INFRASTRUCTURE LTD.

KOC GLOBAL CONSULTANTS PVT. LTD.

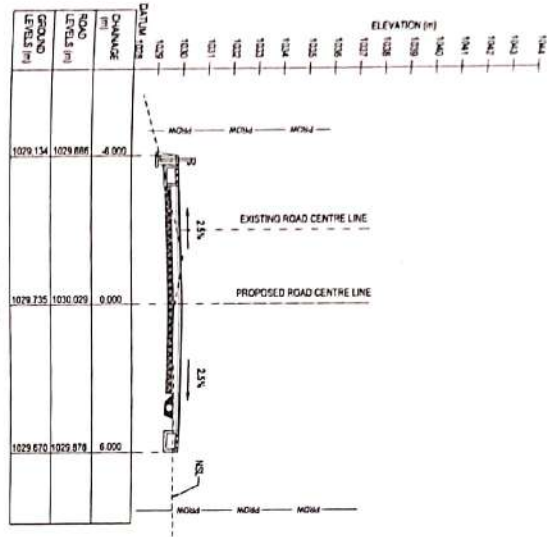
CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDER FROM KM 430.000 TO KM 468.000 OF CHANOLTO TO PAINT (EXCLUDING KM 437.525 TO KM 437.775, KM 458.900 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHARDHANA PARAVOINA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PG-III)

REV

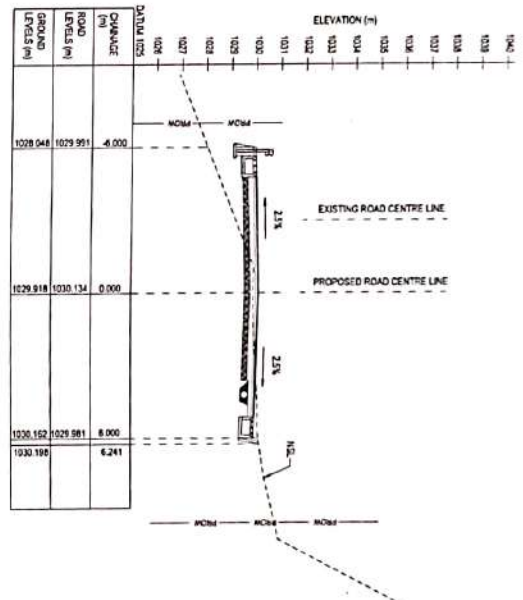
DESCRIPTION

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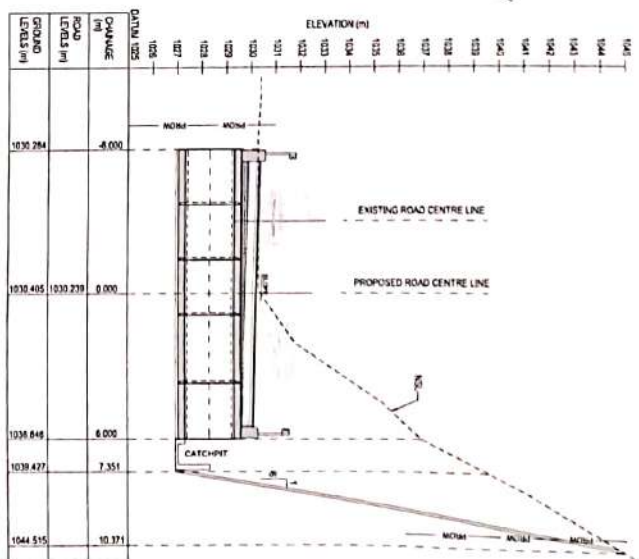
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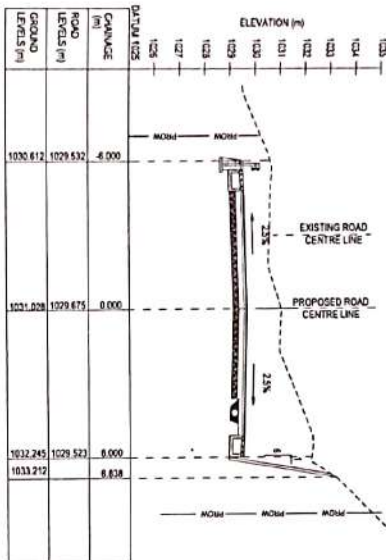
432+150



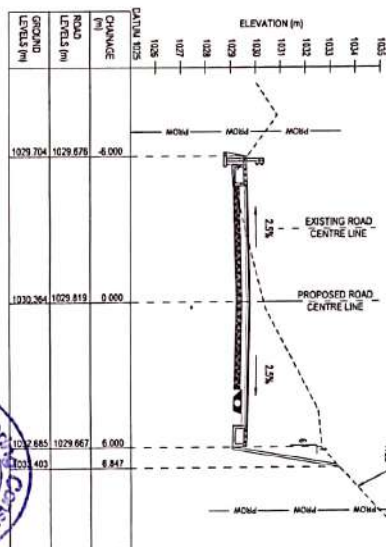
432+175



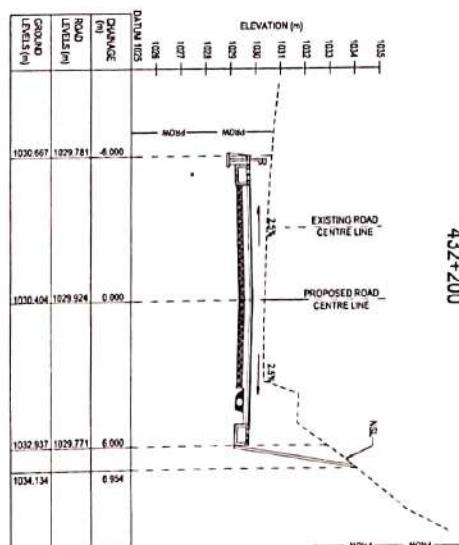
432+200



432+075



432+100



432+125

OWNER ENGINEERING :



National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

SAFETY CONSULTANT :



MANOMAY ENGINEERS
PVT. LTD. MEPL

EPC CONTRACTOR :



NKG INFRASTRUCTURE LTD.

PROOF CONSULTANT :



KGC GLOBAL CONSULTANTS PVT. LTD.
301 Gully, Sector 14, Durgam,
New Delhi, India - 110015
www.kgcglobal.com

PROJECT :

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 433.000 TO KM 438.000 OF CHANDOL TO PAINI (EXCLUDING KM 437.825 TO KM 437.775, KM 438.500 TO KM 439.475 AND KM 434.423 TO KM 435.025) OF NH-100 IN THE STATE OF UTTARAKHAND (PK-III), EPC BASIS IN THE STATE OF UTTARAKHAND (PK-III)

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A2)

1:500 (A3)

1:1000 (A4)

1:2000 (A5)

1:5000 (A6)

1:10000 (A7)

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1:100000 (A10)

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1:20000000 (A17)

1:50000000 (A18)

1:100000000 (A19)

1:200000000 (A20)

1:500000000 (A21)

1:1000000000 (A22)



NOTE: ALL DIMENSIONS ARE IN METRE UNLESS OTHERWISE SPECIFIED

DRAWN BY

AS

DESIGNED BY

SK

APPROVED BY

DK

DWG NO.

CP/ROAD/CS/032

REVISION R-0

OCT-2018

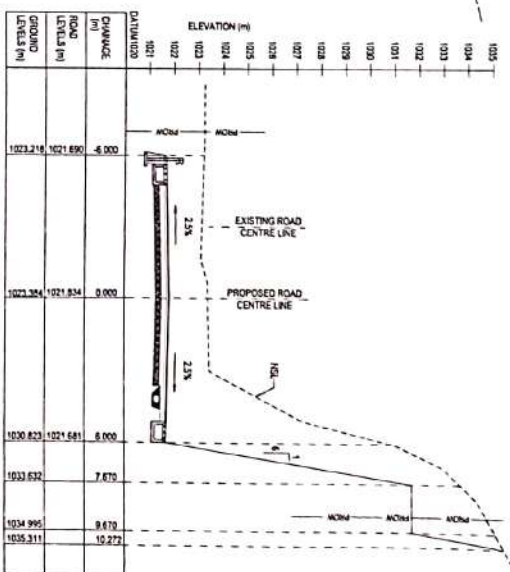
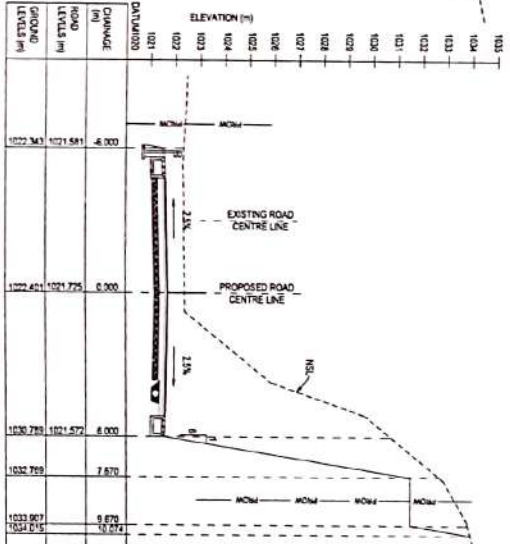
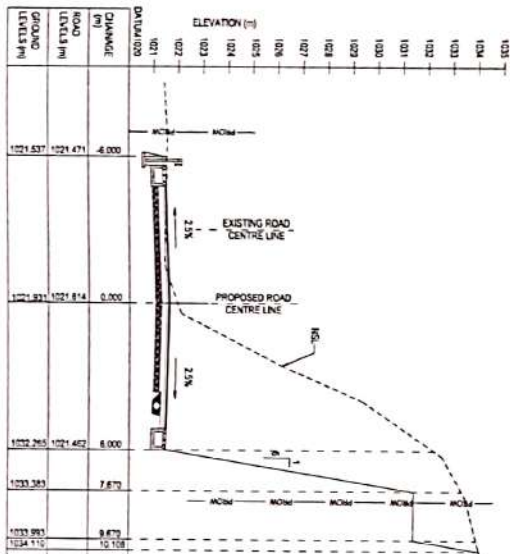
TITLE

PROPOSED CROSS SECTION

AT INTERVAL OF 25.00m

FROM CHAINAGE 432+075 TO

432+200



NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

OWNER ENGINEERING:

National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:

MAHOMAY ENGINEERS PVT LTD MEPL

EPC CONTRACTOR:

NKG INFRASTRUCTURE LTD.

PROJECT CONSULTANT:

KOC GLOBAL CONSULTANTS PVT LTD.
301 3rd Floor, Sector 14, Durgam,
New Delhi, Delhi 110015.
www.kocglobalconsultants.com

PROJECT DESCRIPTION & LOCATION OF EXISTING ROAD:

CONSTRUCTION OF NEW ROAD FROM KM 432.000 TO KM 434.000 OF CHANOLI TO PAMRI (EXCLUDING KM 432.625 TO KM 437.775 KM 438.800 TO KM 439.472 AND KM 434.423 TO KM 434.529 OF NH-07 UNDER CHANDHAM PARVOLA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKG-II)

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A2)

SCALE

1:200 (A2)

REVISION

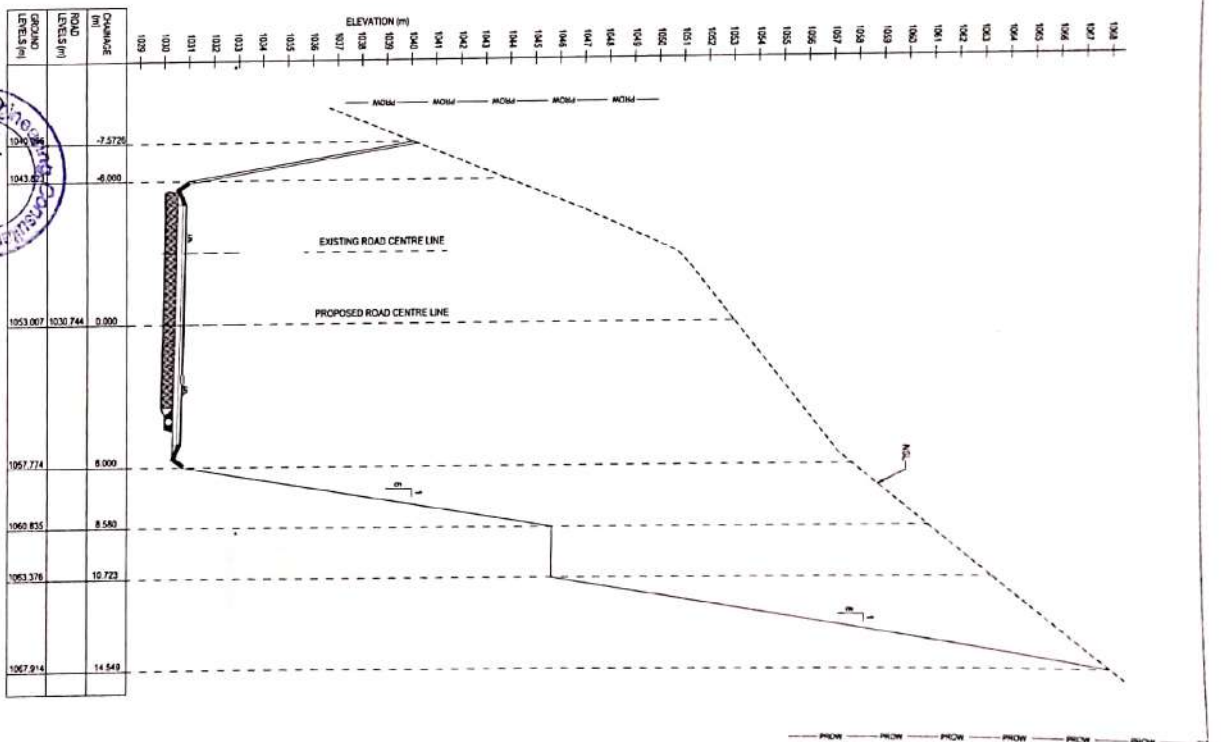
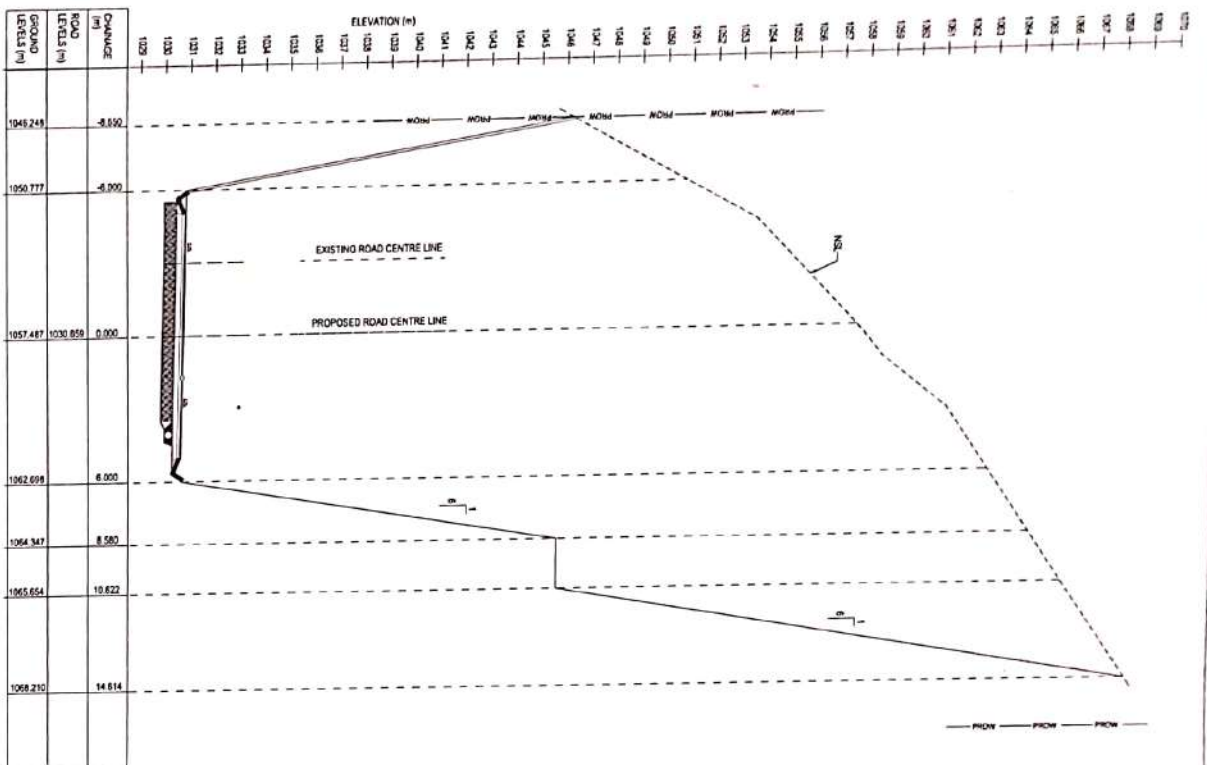
R-4

TITLE

PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHANOLIE 432+275

DATE

OCT. 2018



NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

OWNER ENGINEERING:

SAFETY CONSULTANT:

EPC CONTRACTOR:

PROOF CONSULTANT:

PROJECT:

REV

DATE

DESCRIPTION

SCALE

REVISION

TITLE: PROPOSED CROSS SECTION
AT INTERVAL OF 25.00m
FROM CHANGING 432+300 TO
432+325

DATE: OCT-2018

National Highways & Infrastructure
Development Corporation Ltd (NHIDCL)

MANOMAY ENGINEERS
PVT LTD MEPL

NGC INFRASTRUCTURE LTD.

KOC GLOBAL CONSULTANTS PVT LTD.
301, 1st Floor, Sector 44, Durgam
Nagar, Hyderabad - 500082
www.kocglobalconsultants.com

CONSTRUCTION & DEGRADATION OF EXISTING
ROAD TO 2 LANE WITH PAVED SHOULDERS FROM
KM 430.000 TO KM 448.000 OF CHANGULU TO PUNNI
RELOCATING KM 432.5 TO KM 437.5 TO KM 438.000
UNDER CHANDRAN PAVEMENT. PAVEMENT ON EPC
BASIS IN THE STATE OF ULTRAKHAND (P&G-III)

DRAWN BY: AS
DESIGNED BY: SK
APPROVED BY: DK
DRG NO: CDR/ROAD/CS/053

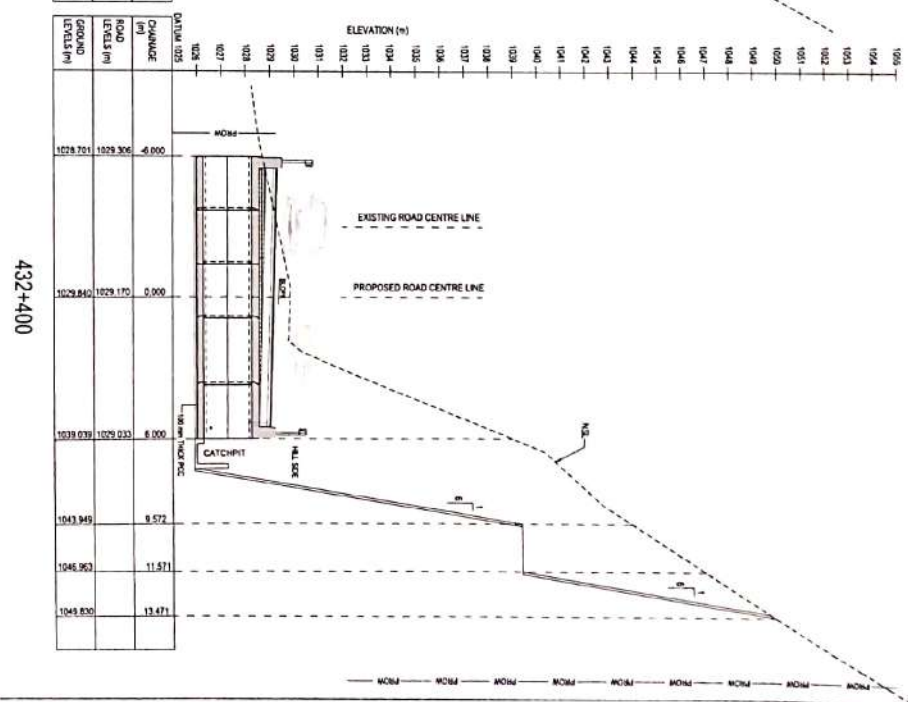
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1:200 (A3)

REVISION: R-0

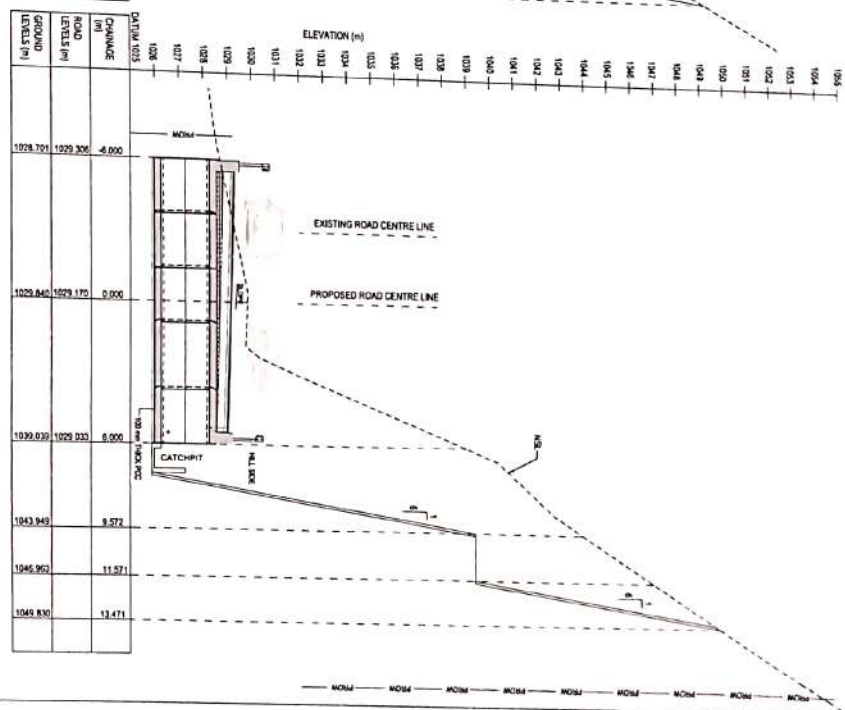
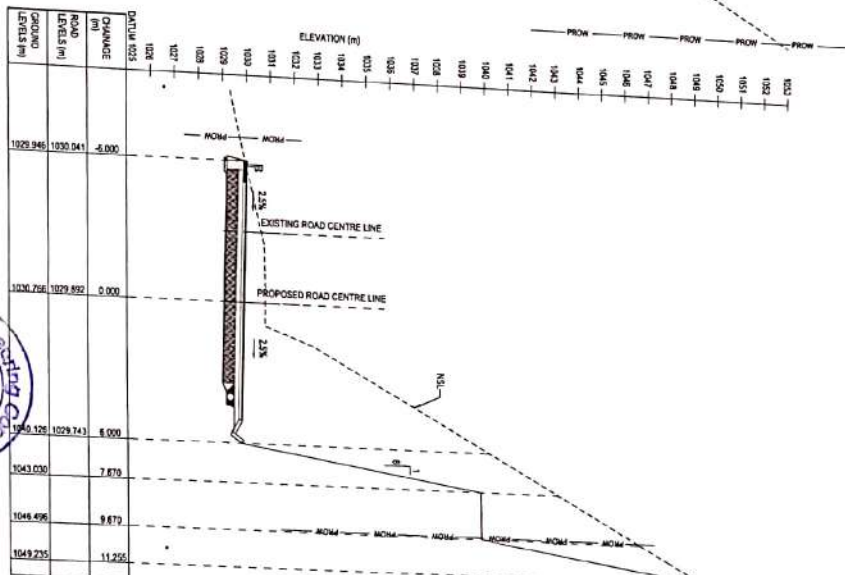
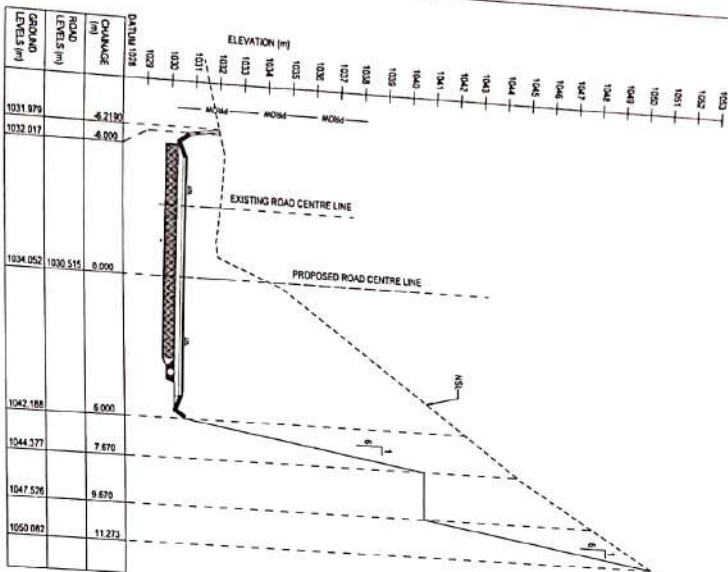


Scanned with OKEN Scanner

DATE	PROJECT	DESCRIPTION	REVISION
10/2/2018	CP/ROADS/053A	AT INTERVAL OF 25.00m FROM CHAINAGE 432+350 TO 432+400	R-0
			OCT. 2018

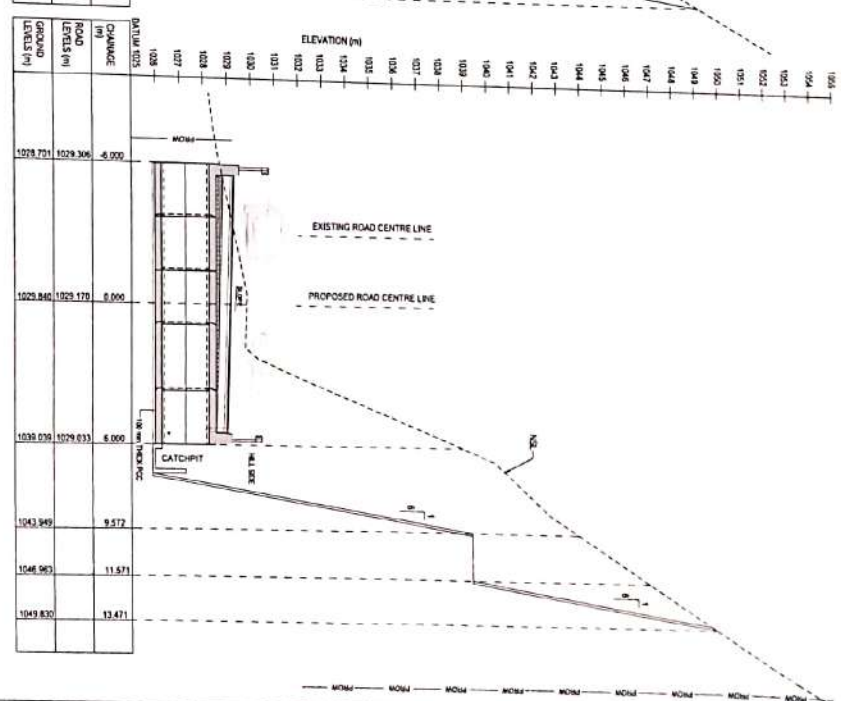
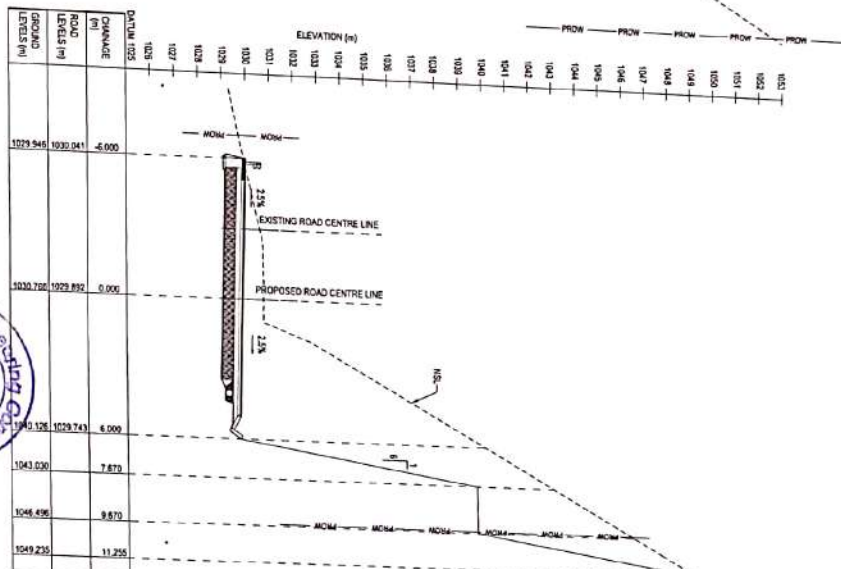
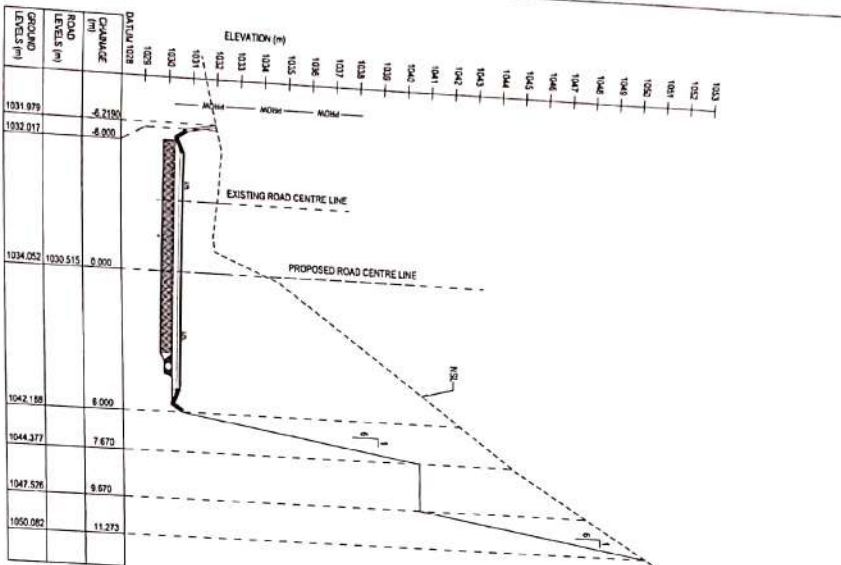


NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED



OWNER ENGINEERING: National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)		SAFETY CONSULTANT: MAMPAKAY ENGINEERS PVT. LTD. MEPL		EPC CONTRACTOR: MAMPAKAY ENGINEERS PVT. LTD. MEPL							
PROJECT: CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 8 LANE WITH SHOULDER FROM KM 432+00 TO KM 432+500 OF CHANOL TO PLAIN (SECTION KM 432+525 TO KM 432+775 KM 438+800 TO KM 439+475 AND KM 444+425 TO KM 446+525) OF NH-07 UNDER CHANDHAM PARYAJANA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PG-III)		PROOF CONSULTANT: KOD GLOBE CONSULTANTS PVT. LTD. 201, Sector 14, Durga, New Delhi-110015 www.kodglobe.com		REVISION: <table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		REV	DATE	DESCRIPTION			
REV	DATE	DESCRIPTION									
DRAWN BY: AS		DESIGNED BY: SK		APPROVED BY: DK							
TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHAINAGE 432+350 TO 432+400		DWG. NO.: CPROAD/CS/03A		REVISION: R-0							
SCALE: 1:100 (A1) 1:200 (A3)		DATE: OCT-2018		REVISION: R-0							

NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A2)

REVISION

R-0

OCT 2018

TITLE

PROPOSED CROSS SECTION

AT INTERVAL OF 25.00m

FROM CHANGAGE 432+350 TO

432+400

DESIGNED BY

SK

APPROVED BY

DK

DRG. NO.

CP/ROAD/CS/053A

REVISION

R-0

OCT 2018

1:100 (A1)

1:200 (A2)

REVISION

R-0

OCT 2018

TITLE

PROPOSED CROSS SECTION

AT INTERVAL OF 25.00m

FROM CHANGAGE 432+350 TO

432+400

DESIGNED BY

SK

APPROVED BY

DK

DRG. NO.

CP/ROAD/CS/053A

REVISION

R-0

OCT 2018

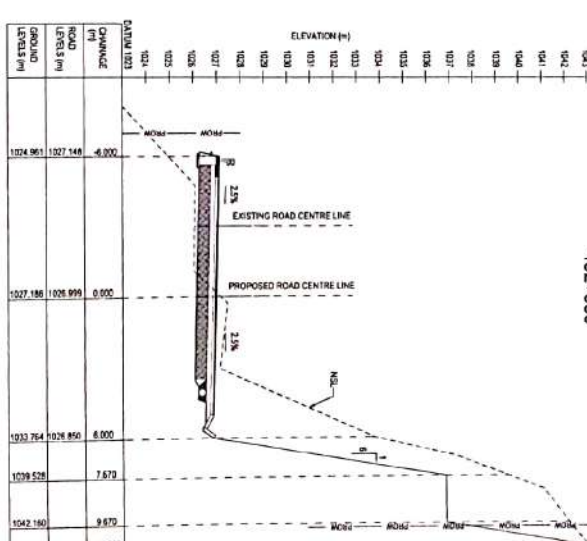
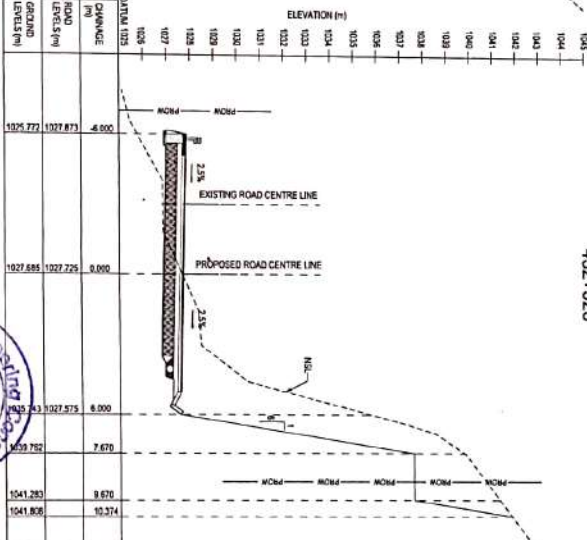
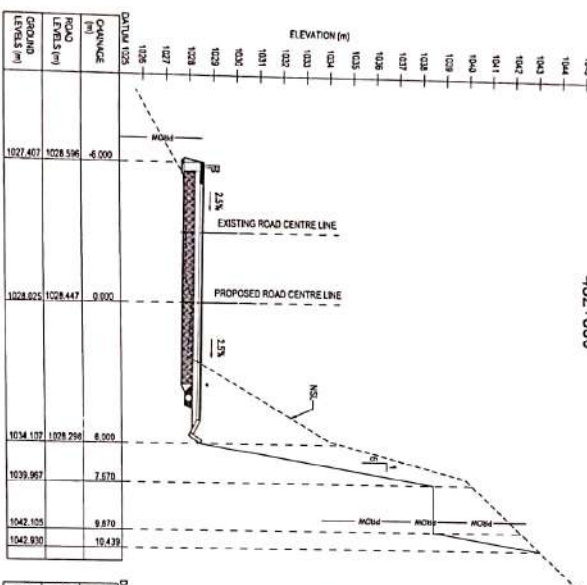
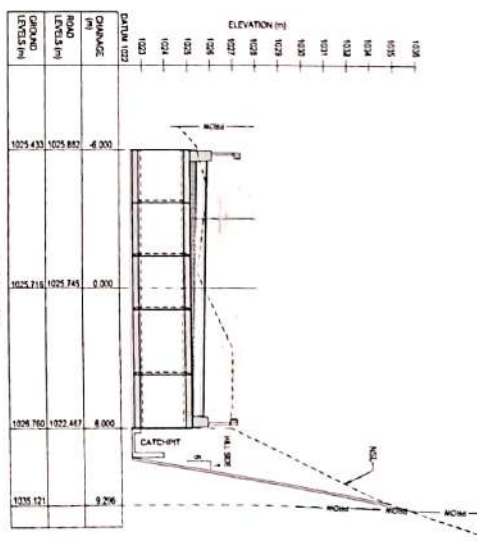
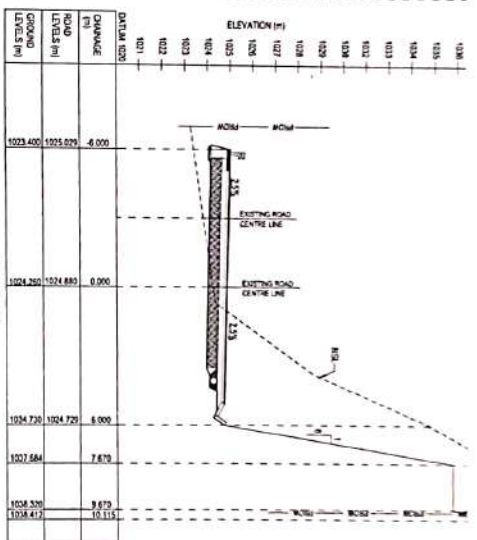
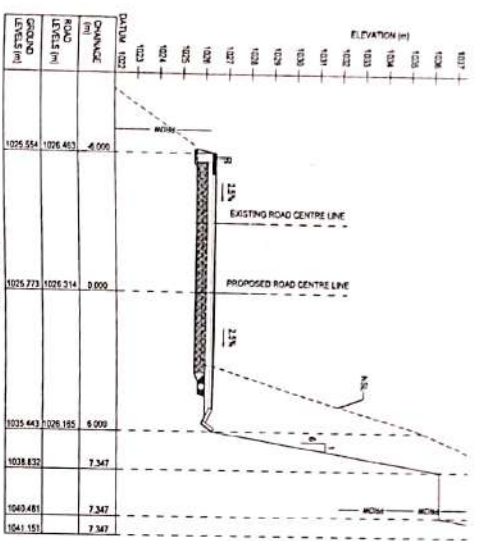
1:100 (A1)

1:200 (A2)

REVISION

R-0

OCT 2018



OWNER ENGINEERING:



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:



M&M ENGINEERS
PVT. LTD.

EPC CONTRACTOR:



NKG INFRASTRUCTURE LTD.

PROJECT CONSULTANT:



KODI GLOBE CONSULTANTS PVT. LTD.
101 Building, Sector 14, DLF Phase II
Gurgaon, Haryana 122002
www.kodiglobeconsultants.com

PROJECT: CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD TO 3-LANE WITH PAVED SHOULDERS FROM KM 430+00 TO KM 468+00 ON CHANOLI TO NH 48 ROAD, DISTRICT NH-48, STATE OF NH-48, UNDER CHANDHAN PARIPOKA ON EPC BASIS IN THE STATE OF UTTARANCHAL (P&C-II)

REV

DATE

DESCRIPTION

DRAWN BY

DESIGNED BY

APPROVED BY

SCALE

1:100 (A1)

1:200 (A2)

REVISION

R.O.

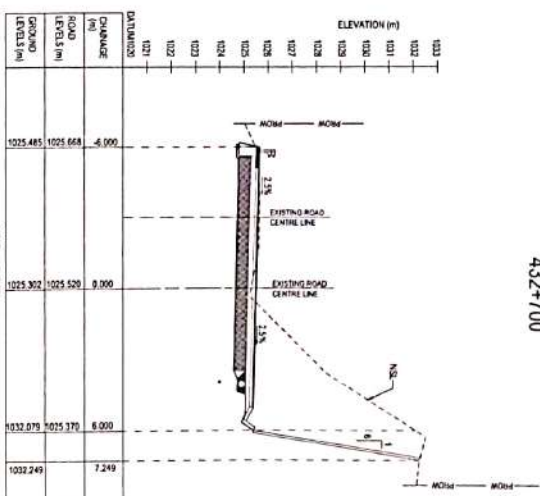
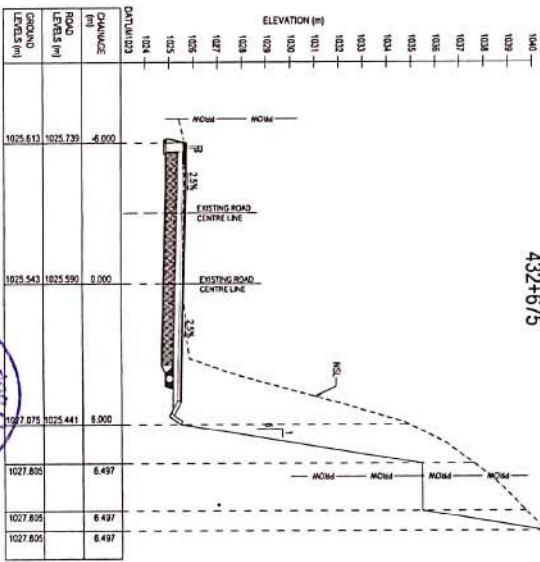
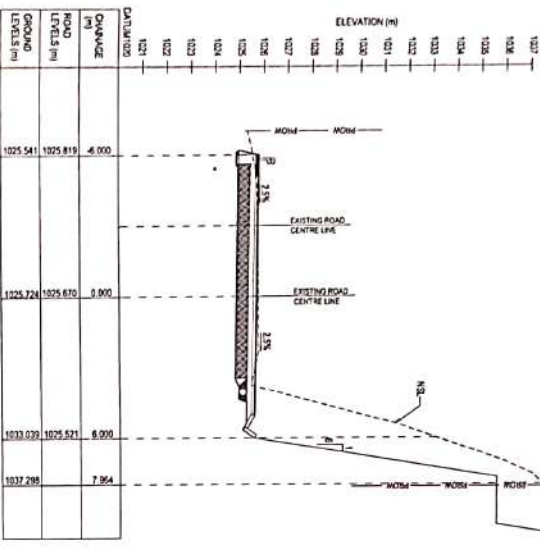
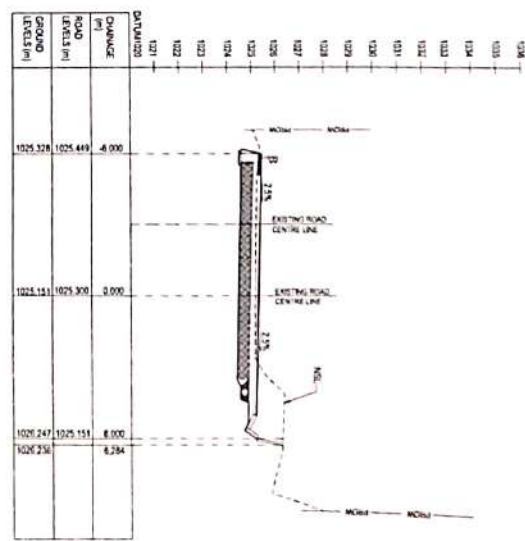
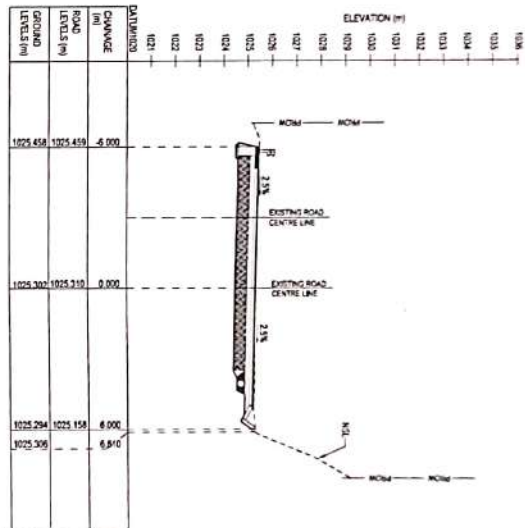
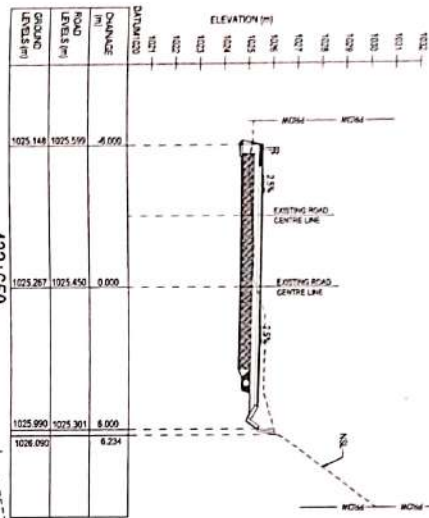
OCT-2018

NOTES:

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHAINAGE 432+425 TO 432+550

DWG NO. CPM/ADCS/014



432+575

432+600

432+650

432+675

432+700

432+625

OWNER ENGINEERING.

SAFETY CONSULTANT:

EPC CONTRACTOR:

PROOF CONSULTANT:

PROJECT: CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD TO 24LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 432.750 OF NH-4775, KM 434.900 TO KM 435.750 OF NH-4775, KM 454.900 TO KM 459.475 AND KM 464.425 TO KM 464.525 OF NH-47 UNDER CHANDRAM PARVATHA ON EPC BASIS IN THE STATE OF ULTRACHAND (PKG-III)

DRAWN BY AS

DESIGNED BY SK

APPROVED BY DK

SCALE 1:200 (AS)

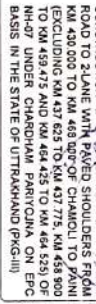
DRG NO CP/ROADS/055

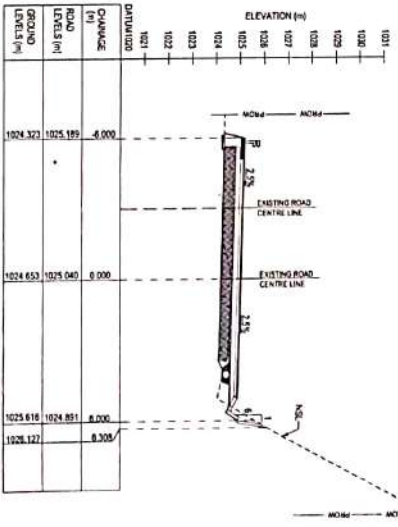
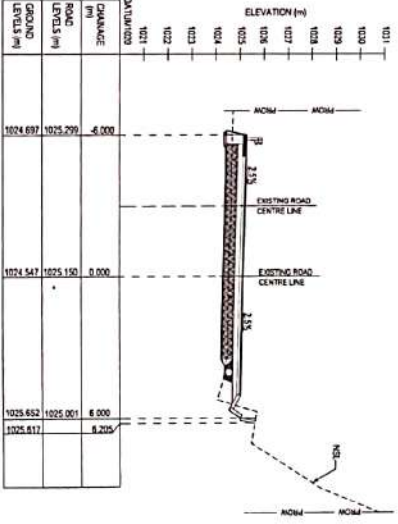
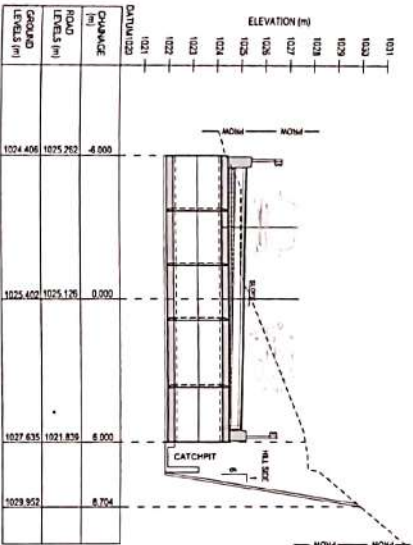
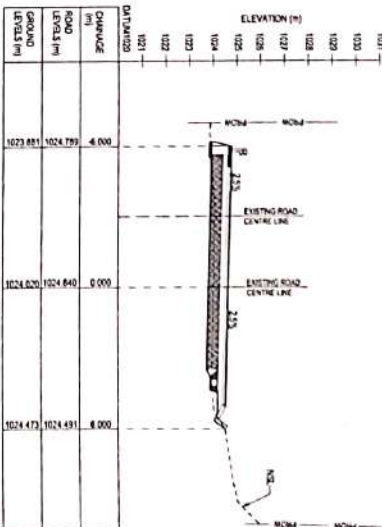
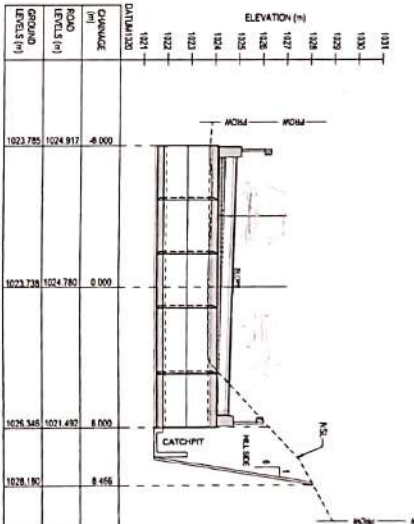
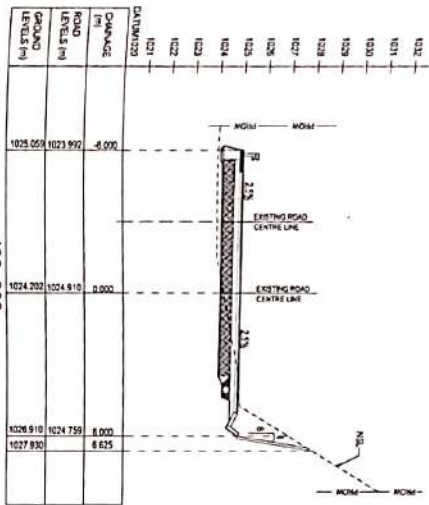
REVISION RD

OCT. 2018

TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 432+575 TO 432+700

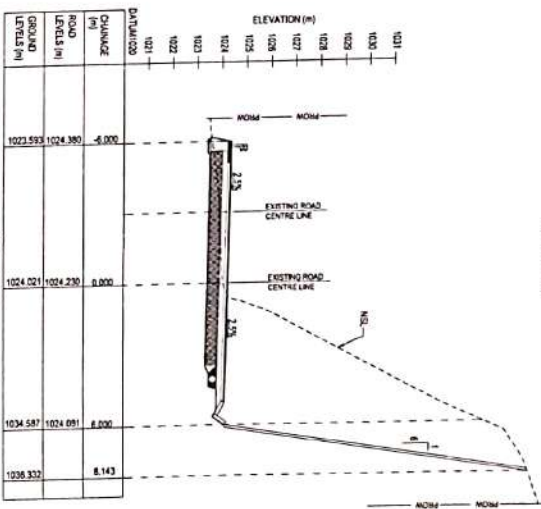
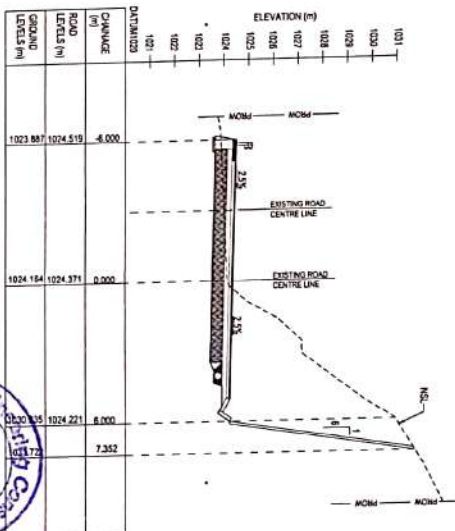
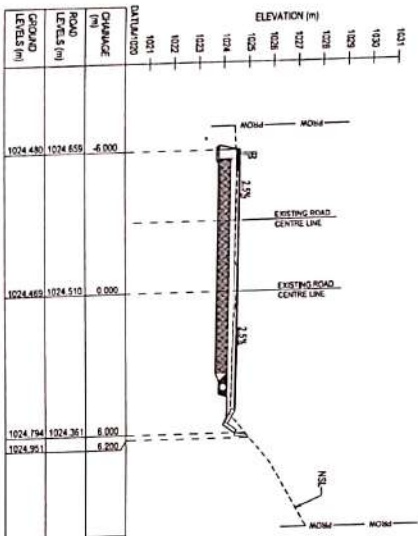
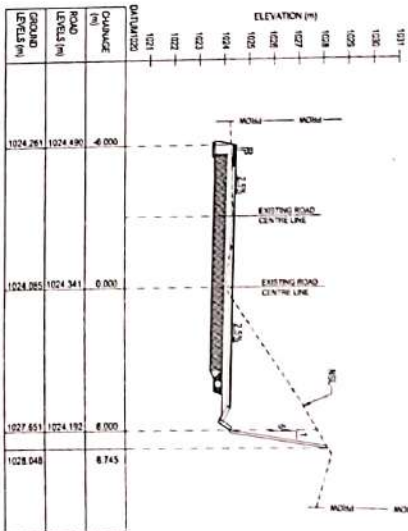
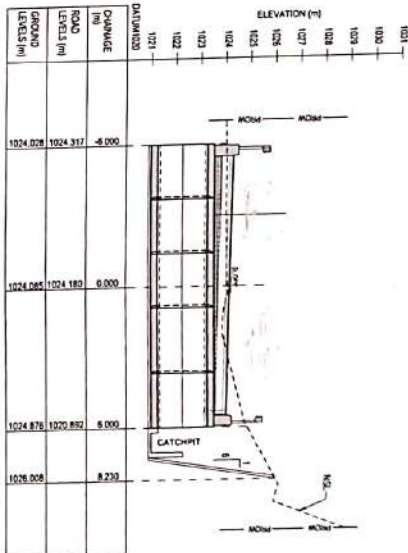
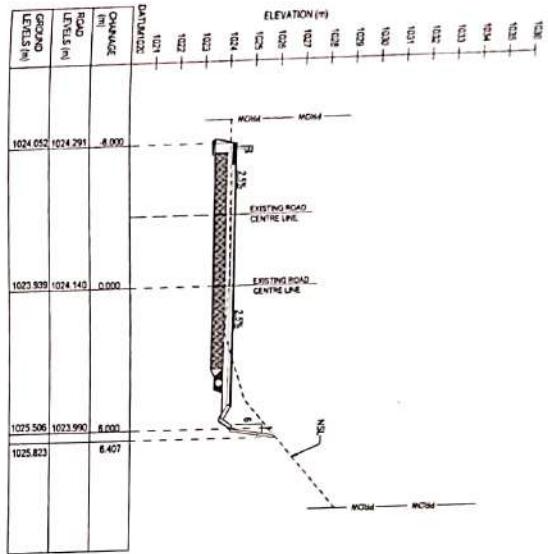
NOTES: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED





NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

OWNER ENGINEERING National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT MAMONKAV ENGINEERS PVT. LTD.		EPC CONTRACTOR MAMONKAV ENGINEERS PVT. LTD.		PROJECT CONSULTANT KOD & SONS CONSULTANTS PVT. LTD.		PROJECT CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 3-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLU TO PAUNI (EXCLUDING KM 437.525 TO KM 437.775, KM 458.990 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHARDHAM PARIVOHAN ON EPC BASIS IN THE STATE OF UTTARAKHAND (PHG-II)	
REV	DATE	DESCRIPTION	SCALE	1:100 (A1)	1:200 (A2)	REVISION	R-0	OCT. 2018	
DRAWN BY AS		DESIGNED BY SK		APPROVED BY OK		DNG NO CP/ROAD/CS/055		TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 432+725 TO 432+850	



OWNER ENGINEERING :

SAFETY CONSULTANT :

EPC CONTRACTOR :

PROOF CONSULTANT :

PROJECT :

REV :

DATE :

DESCRIPTION :

SCALE :

1:100 (A1)

1:200 (A3)

REVISION :

R.O

OCT-2018

NOTES :

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

TITLE :

PROPOSED CROSS SECTION

AT INTERVAL OF 25.00m

FROM CHAINAGE 432+875 TO

433+000

DESIGNED BY :

SK

APPROVED BY :

DK

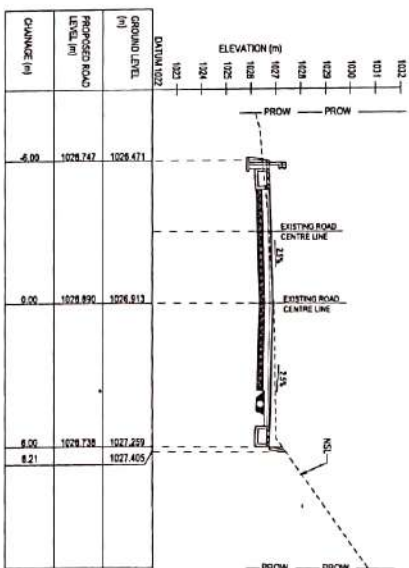
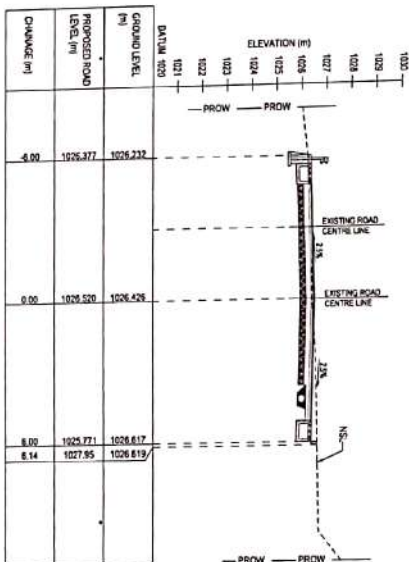
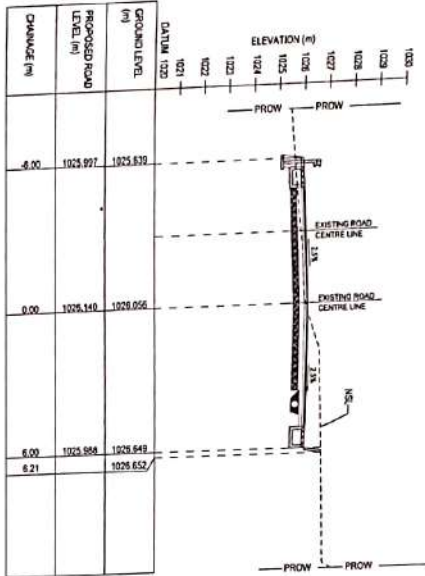
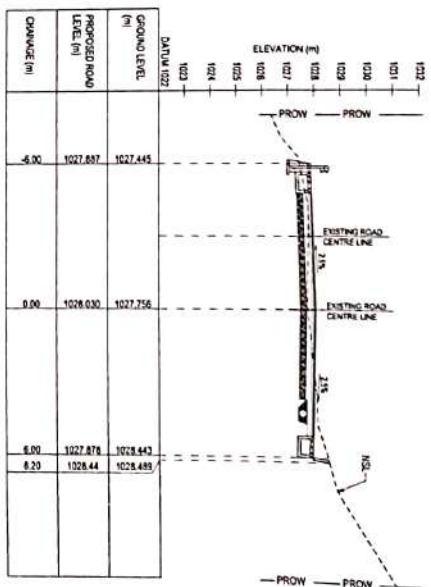
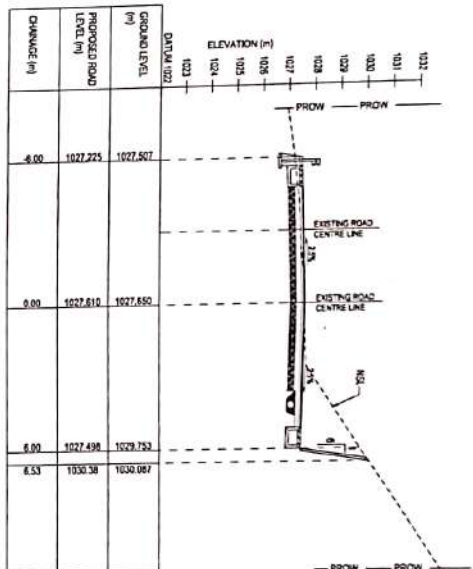
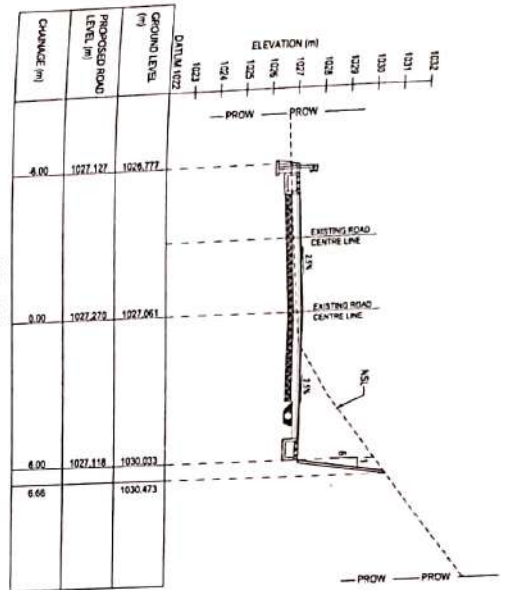
DWG. NO. :

CPRO/ACS/057

REVISION :

R.O

OCT-2018



OWNER ENGINEERING:

SAFETY CONSULTANT:

EPC CONTRACTOR:

PROOF CONSULTANT:

PROJECT:

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A2)

REVISION

R-0

DATE

10/11/2018

10/11/2018

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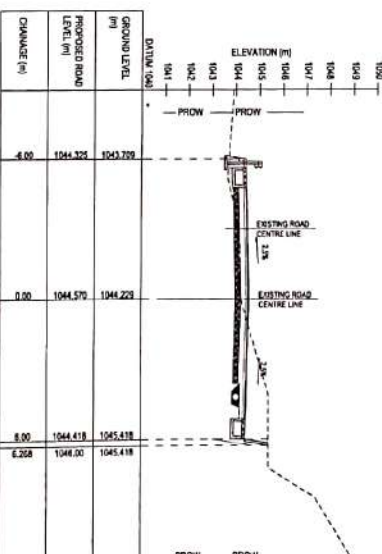
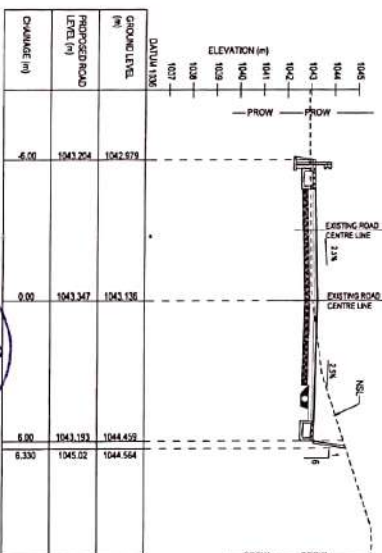
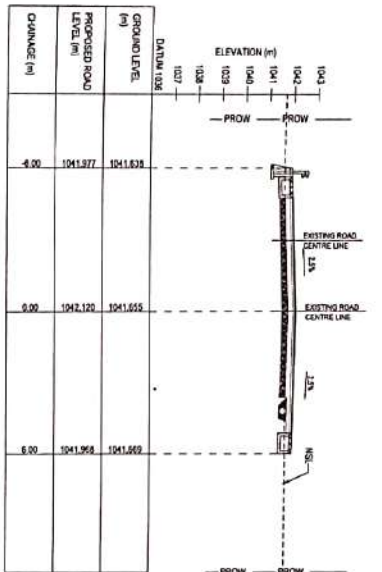
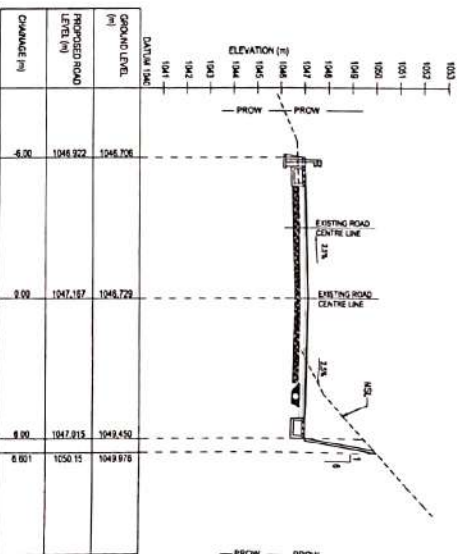
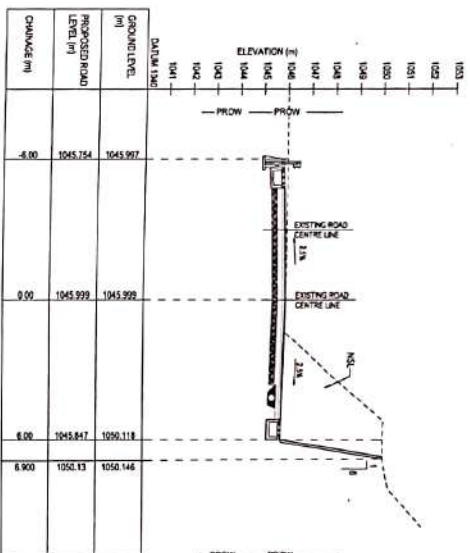
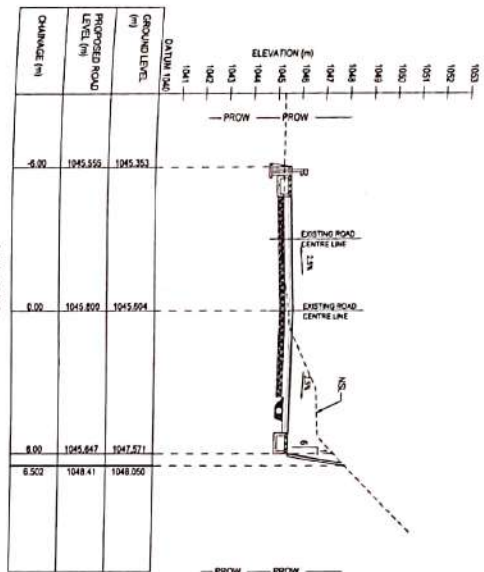
10/11/2018

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10/11/2018



OWNER ENGINEERING



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



MANOJAY ENGINEERS
PVT. LTD.

EPC CONTRACTOR



NKG INFRASTRUCTURE LTD.

PROJECT CONSULTANT



KGC GLOBAL CONSULTANTS PVT. LTD.
341 KALAN, SECTOR 14, DUBLIN
NEW YORK 10011-1005
www.kgcglobalconsultants.com

PROJECT

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 433+575 TO KM 433+700 (EXCLUDING KM 437.025 TO KM 437.775, KM 438.800 TO KM 439.475 AND KM 444.425 TO KM 444.525) OF NH-47 UNDER CHANDHAM PARVATHA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PK-II)

REV

DATE

DESCRIPTION

SCALE

1:500 (A1)

1:200 (A3)

REVISION

R-0

TITLE

PROPOSED CROSS SECTION

AT INTERVAL OF 25.00m

FROM CHANGK 433+575 TO

433+700

DRG. NO. :

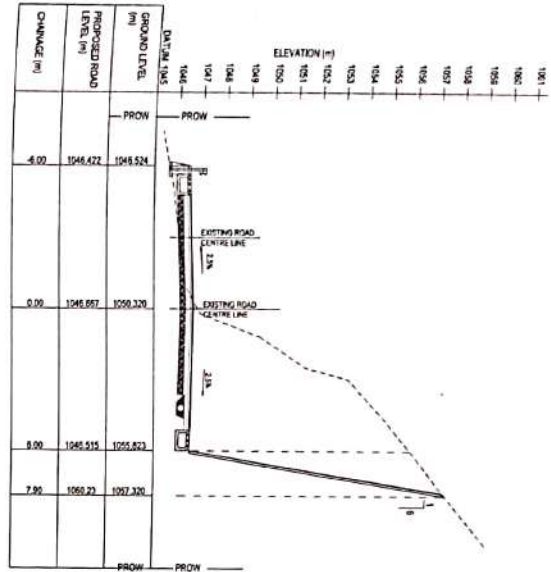
CP/ROAD/CS/062

OCT-2018

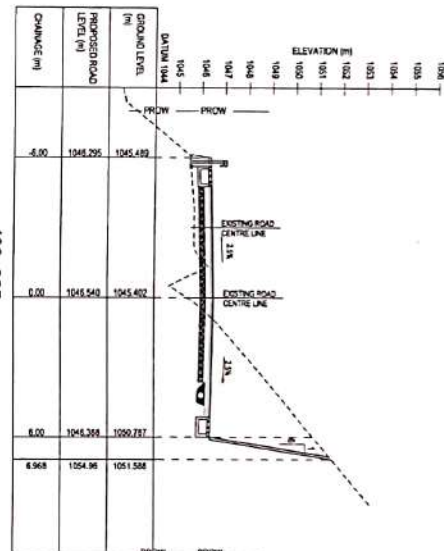
NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED



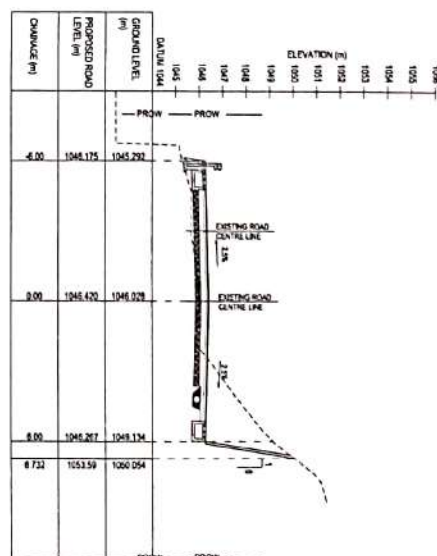
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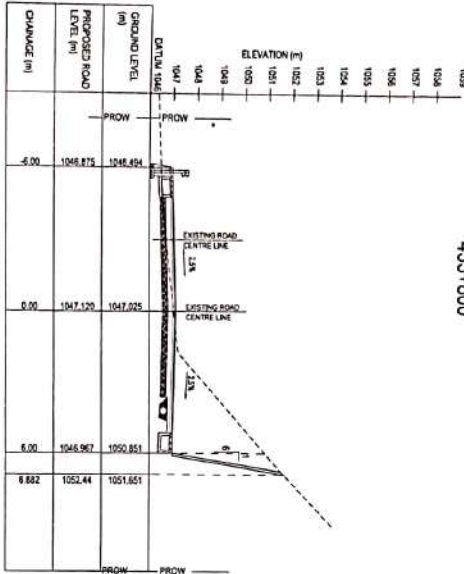
433+800



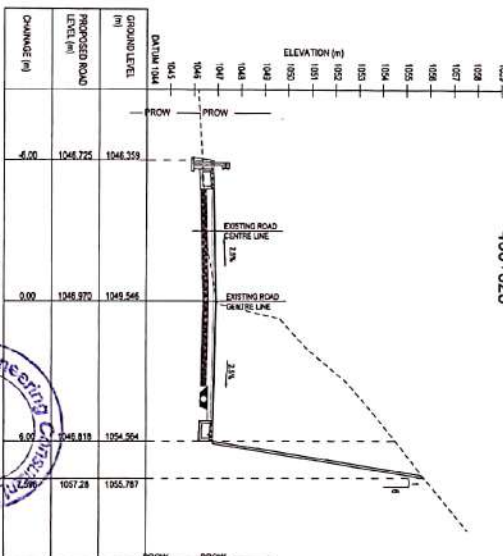
433+825



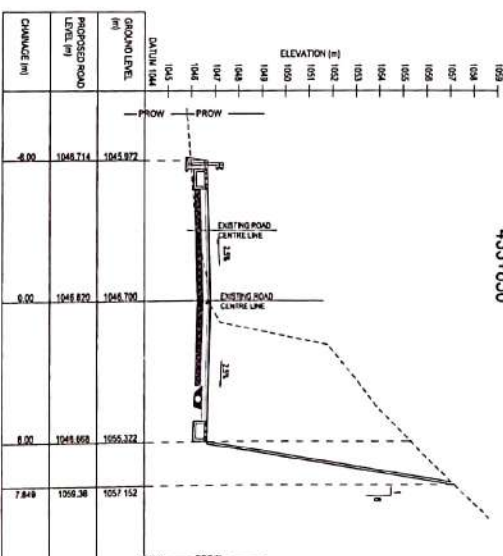
433+850



433+725



433+750



433+775

OWNER ENGINEERING



National Highway & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



MAMNANI ENGINEERS
PVT. LTD. MEPL

EPC CONTRACTOR



S. N. K. INFRASTRUCTURE LTD.

PROJECT CONSULTANT



IGC GLOBAL CONSULTANTS PVT. LTD.
301 Gurgaon, Sector 4, Dwarka,
New Delhi-110075
www.igcglobalconsultants.com

PROJECT

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 427.725 TO KM 437.775, KM 438.800 TO KM 439.475 AND KM 444.425 TO KM 444.551 OF NH-07 UNDER CHANDHAN PARTOQUIN, ON EPC BASIS IN THE STATE OF UTTARANCHAL (PK-III)

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)
1:200 (A2)

REVISION

R-0

DATE

2018

1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

TITLE

PROPOSED CROSS SECTION

AT INTERVAL OF 25.00M

FROM CHAINAGE 433+725 TO 433+850

DRG NO.

CP/ROAD/CS/083

DATE

2018

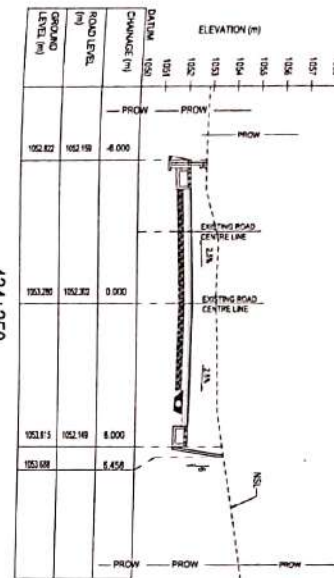


Scanned with OKEN Scanner

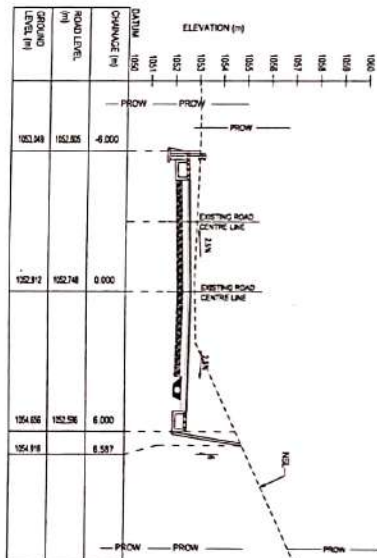
434+075

NOTES -

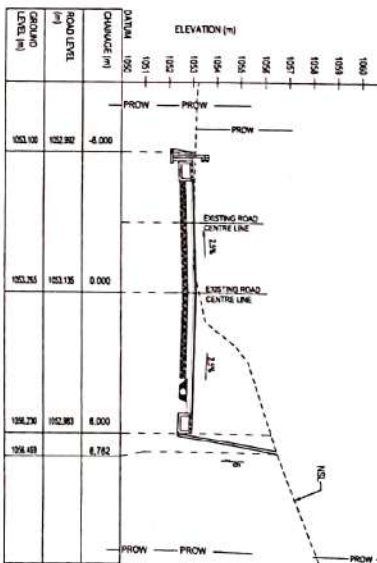
1. All dimensions are in millimeters unless otherwise specified.



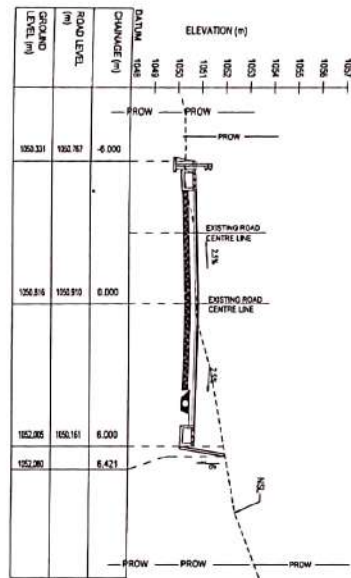
434+250



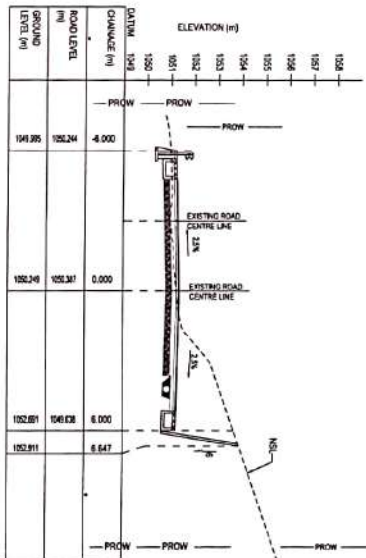
434+275



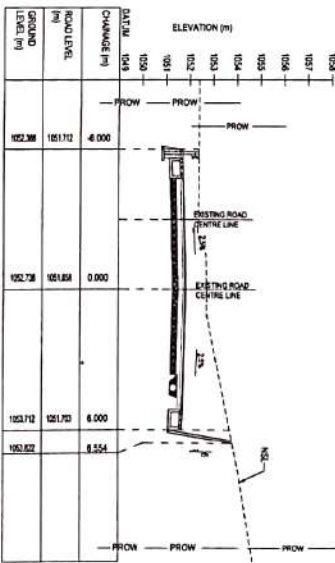
434+300



434+175



434+200



434+225

OWNER ENGINEERING:



National Highways & Infrastructure
Development Corporation Ltd. (NHIDCL)

SAFETY CONSULTANT



MAMONAV ENGINEERS
PVT. LTD.

EPC CONTRACTOR



KGC GLOBAL CONSULTANTS PVT. LTD.

PROJECT CONSULTANT



KGC GLOBAL CONSULTANTS PVT. LTD.

PROJECT DESCRIPTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM CHANGAGE 434+175 TO 434+300 (EXCLUDING KM 437.825 TO KM 437.725) ON NH-47 UNDER CHARGHAM PARVANA, ON EPC BASIS IN THE STATE OF UTTARAKHAND (PGC-II)

REV. DATE DESCRIPTION

DRAWN BY: AS

DESIGNED BY: SK

APPROVED BY: DK

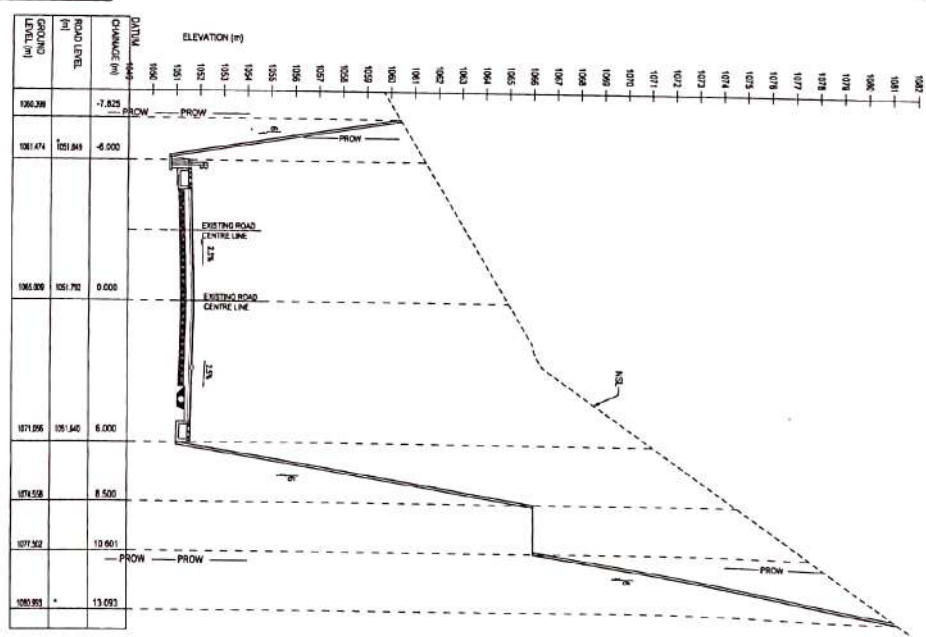
DWG NO. CPM/ADCS/066

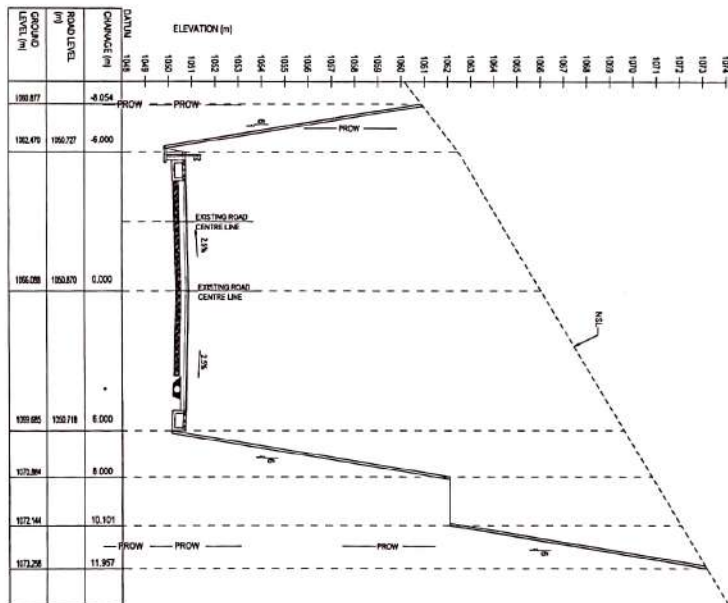
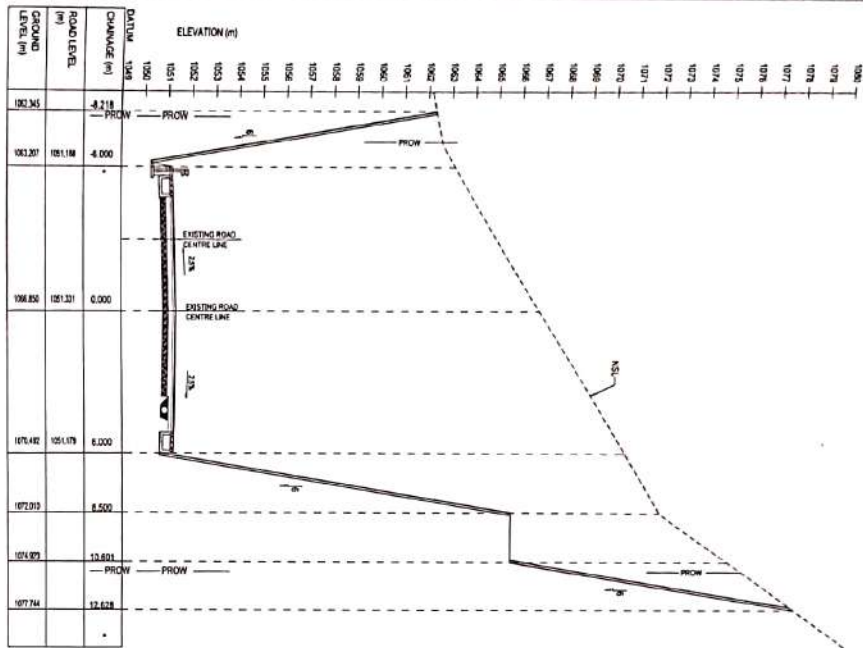
REVISION: R-0

OCT-2018

NOTES: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

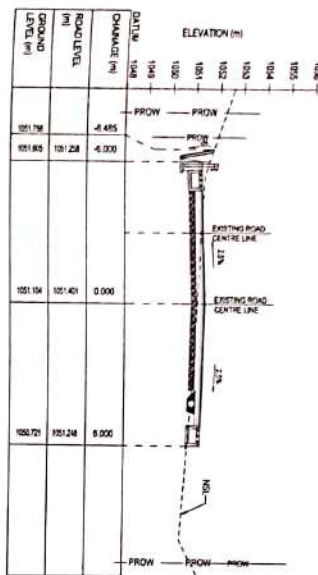
TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHANGAGE 434+175 TO 434+300



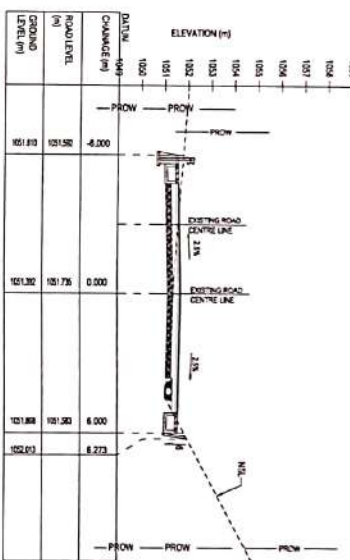


434+500 TO 434+600
BIRAHU BRIDGE LOCATION
REFER SEPARATE DRAWINGS

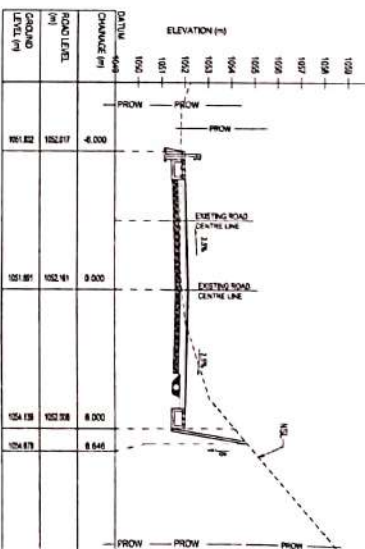
OWNER ENGINEERING ANDEA National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT AME MAHAKUL ENGINEERS PVT. LTD. MEPL		EPC CONTRACTOR ANDEA ANDEA INFRASTRUCTURE LTD.		PROJECT CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLU TO PANI (EXCLUDING KM 437.525 TO KM 437.775, KM 458.500 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHANDRAM PANTOLIN ON EPC BASIS IN THE STATE OF UTTARANCHAL (INDIA)	
PROOF CONSULTANT ANDEA ANDEA CONSULTANTS PVT. LTD. 30, Noida, Phase II, Noida, Uttar Pradesh, India www.andeaconsultants.com		DESIGNED BY AS		APPROVED BY DK		DRG NO.: CP/ROAD/CS/068	
REV		DATE		DESCRIPTION		SCALE: 1:100 (A3) 1:200 (A3)	
TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHANCE 434+425 TO 434+450		REVISION: R-0		OCT-2018			



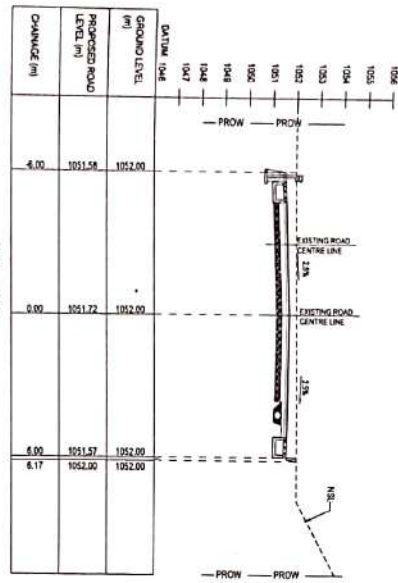
434+675



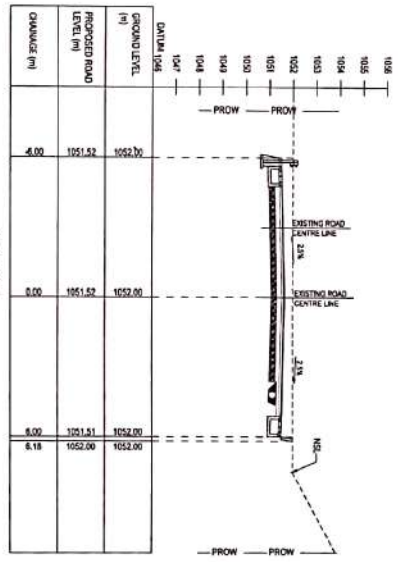
434+700



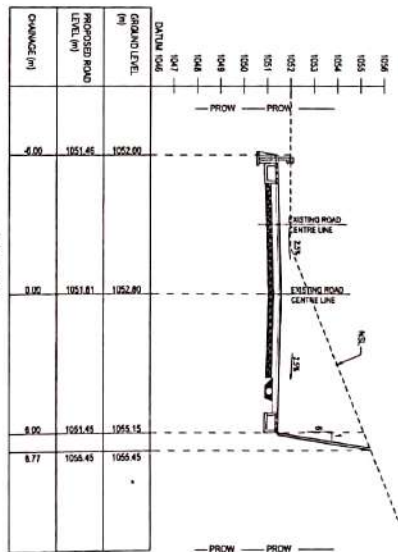
434+725



434+600



434+625



434+650

NOTE: ALL DIMENSIONS ARE IN METRE UNLESS OTHERWISE SPECIFIED

OWNER ENGINEERING: National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT: PINE ENGINEERS PVT. LTD. MEPL		EPC CONTRACTOR: NKS INFRASTRUCTURE LTD.	
PROJECT CONSULTANT: KOD GLOBE CONSULTANTS PVT. LTD. 301, Sector 30, 14 Dhruva, Gurgaon, Haryana 122005 www.kodglobe.com		PROJECT: CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 43.00 TO KM 48.00 OF CH 272, K.A. 4.8 KM TO KM 43.97 AND KM 44.42 TO KM 44.52 OF NH-07 UNDER CHANDIGRAM PARITY ON EPC BASIS IN THE STATE OF UTTARANCHAL (PK-III)			
REV	DATE	DESCRIPTION	SCALE	1:100 (A1)	1:200 (A2)
DRAWN BY: AS DESIGNED BY: SK APPROVED BY: DK DRG. NO.: CP/ROAD/CS/070 REVISION: R-0			TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 434+600 TO 434+725 OCT 2018		



SAFETY CONSULTANT
AME
MANOMAY ENGINEERING
PVT.Ltd. MEPL

EPC CONTRACTOR
MKG
INFRASTRUCTURE LTD

PROOF CONSULTANT
KOC GLOBAL CONSULTANTS PVT. LTD
303 Kalyan, Sector 14, Dwarka
New Delhi - 110015
www.kocglobalconsultants.com

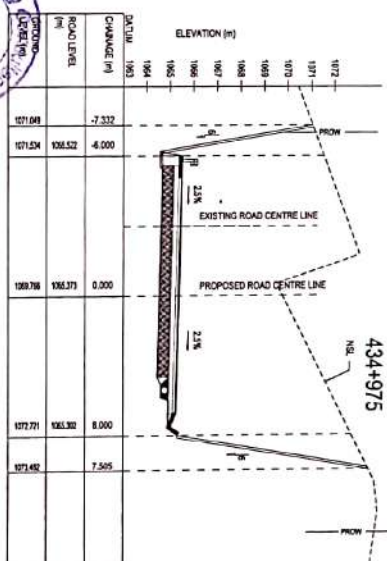
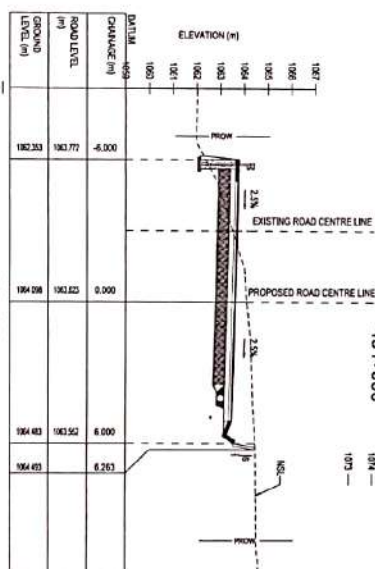
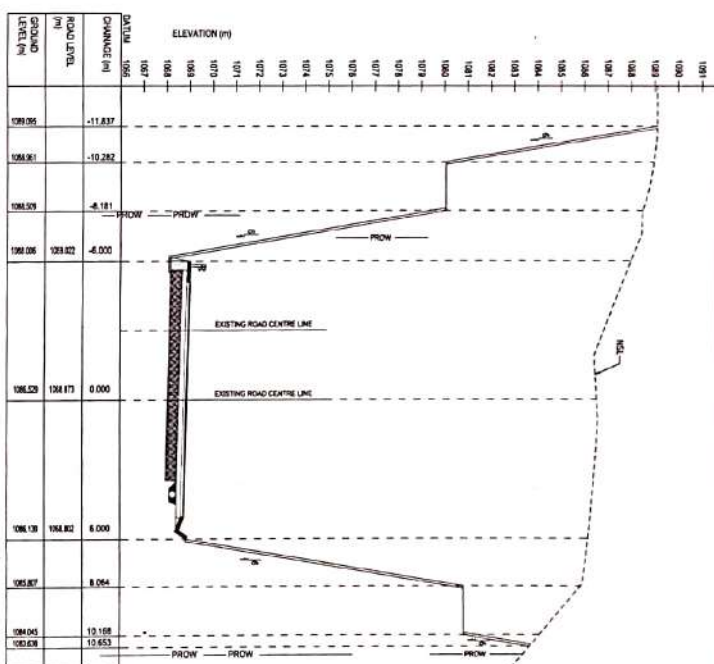
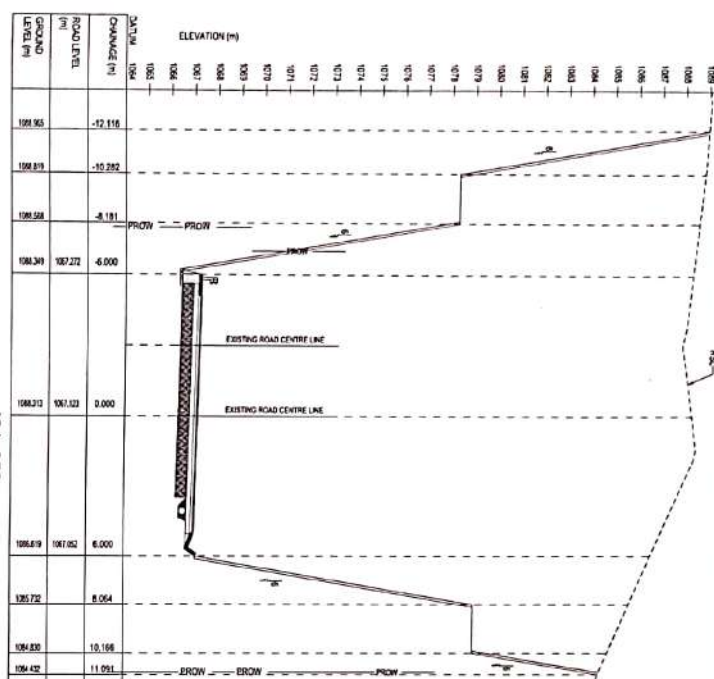
CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLI TO PAINI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.9000 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHARDHAM PARYLOKA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKC-II)

[illegible]

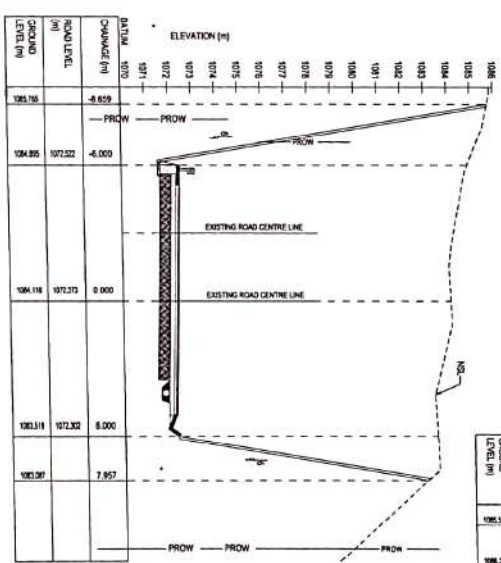
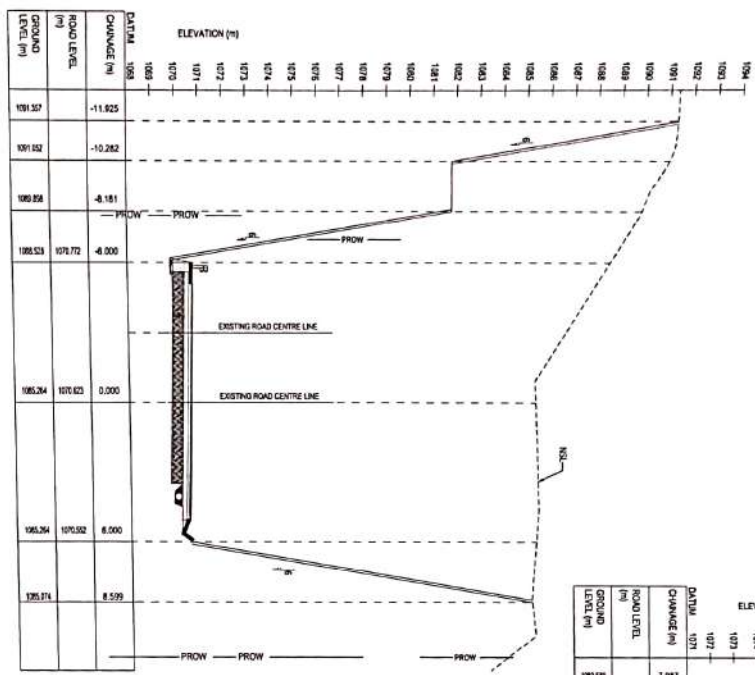
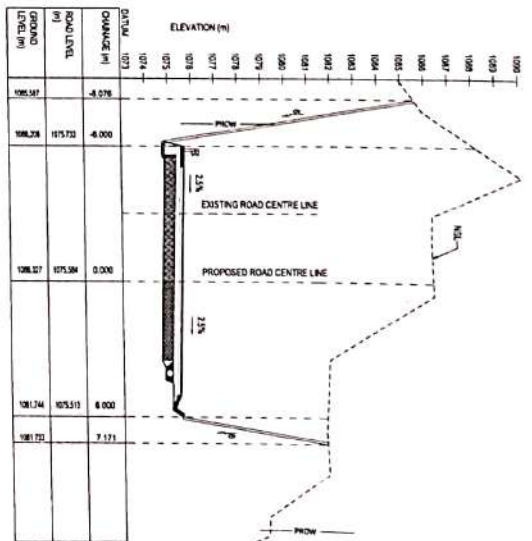
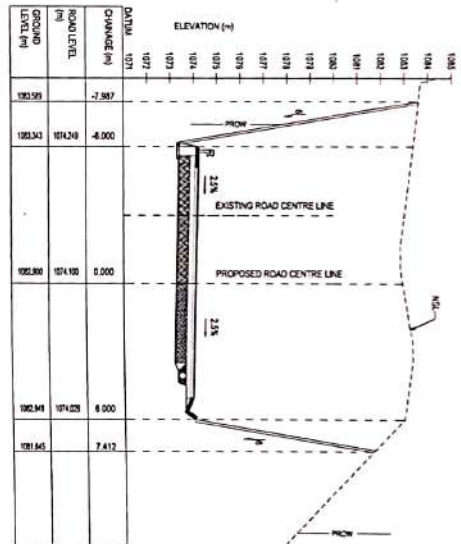
DRAWN BY :	AS
DESIGNED BY :	SK
APPROVED BY :	DK
SCALE :	1/100 (A1) 1/200 (A2)

	TITLE :	PROPOSED CROSS AT INTERVAL OF FROM CHAINAGE 4 434+975
	DRG. NO.	CP/ROAD/CS/07Z
	REVISION : R-0	

SECTION
25.00
34+900 TO



NOTES-
1. ALL DIMENSIONS ARE IN METERS (UNLESS OTHERWISE SPECIFIED)



435+000

435+050

435+025

435+075

OWNER ENGINEERING:



National Highways & Infrastructure Development Corporation Ltd (NHIDCO)

SAFETY CONSULTANT:



MAHOMAY ENGINEERS PVT. LTD. MEPL

EPC CONTRACTOR:



NKG INFRASTRUCTURE LTD.

PROJECT CONSULTANT:



KOC TUBAL CONSULTANTS PVT. LTD.

PROJECT DESCRIPTION:

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 435+000 TO KM 440+000 OF CHANDOL TO PANI (EXCLUDING KM 437+625 TO KM 440+000 OF NH-2 UNDER ANDERSON PARKWAY ON EPC BASIS IN THE STATE OF UTTARANCHAL (PK-III))

REV

DATE

DESCRIPTION

DRAWN BY

AS

DESIGNED BY

SK

APPROVED BY

DK

SCALE:

1:100 (A1)

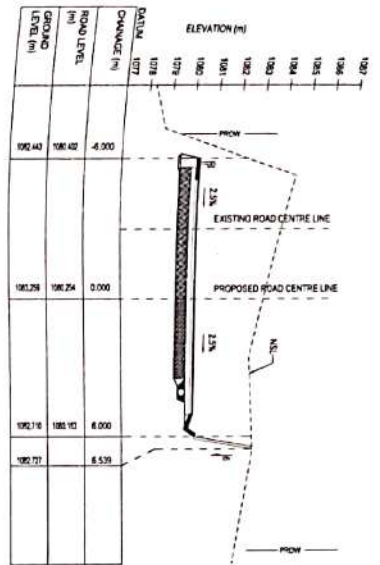
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REVISION: R-0

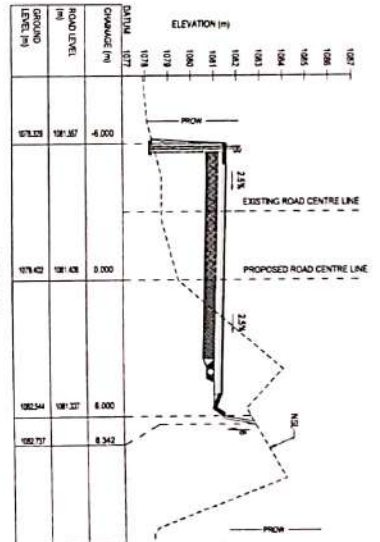
DATE: OCT-2018

TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 435+075

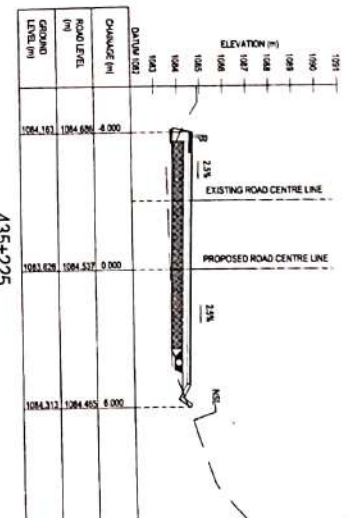
DWG NO: C/ROADCS/073



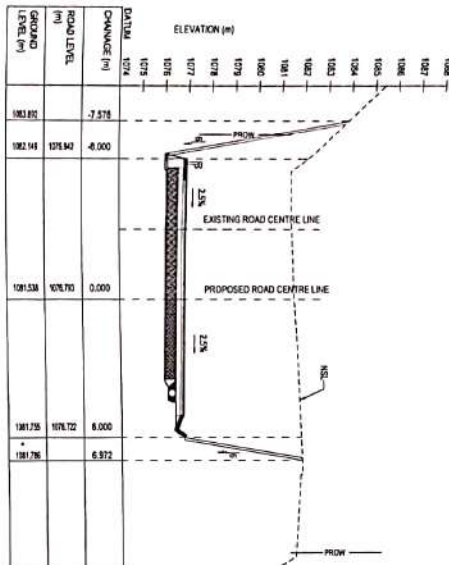
435+175



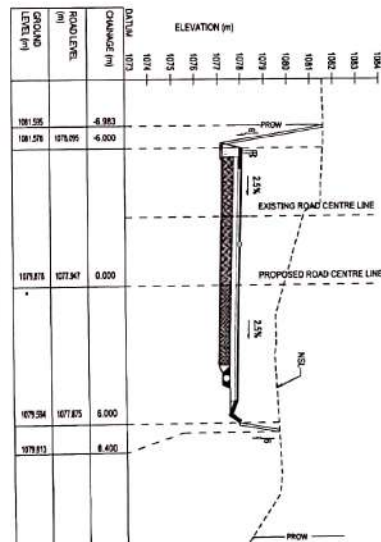
435+200



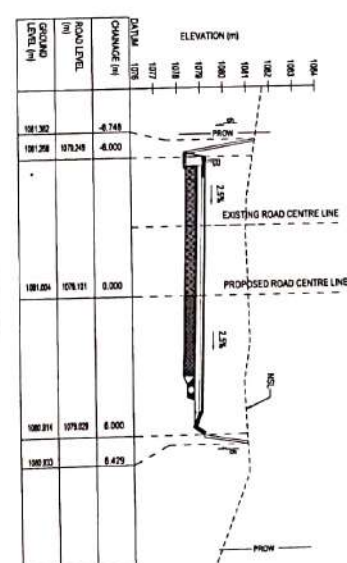
435+225



435+100



435+125



435+150

OKMER ENGINEERING



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



MANUPRA ENGINEERS PVT LTD

EPC CONTRACTOR



NKG INFRASTRUCTURE LTD

PROJECT CONSULTANT



NKG CONSULTANTS PVT LTD

PROJECT DESCRIPTION

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.00 TO KM 437.75. KM 437.75 TO KM 439.475 AND KM 439.475 TO KM 444.525 OF NH-07 UNDER CHANDRHAM PARVATHA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKG-II)

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A2)

SCALE

1:200 (A2)

SCALE

1:200 (A2)

SCALE

1:200 (A2)

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1:200 (A2)

SCALE

1:200 (A2)

SCALE

1:200 (A2)

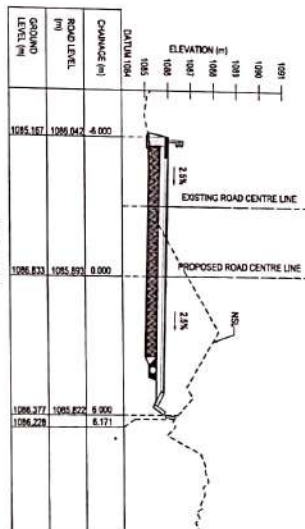
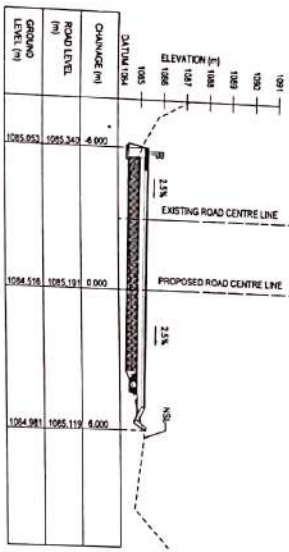
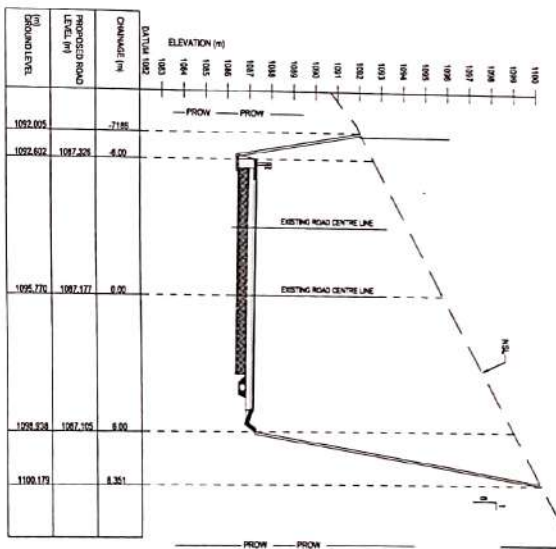
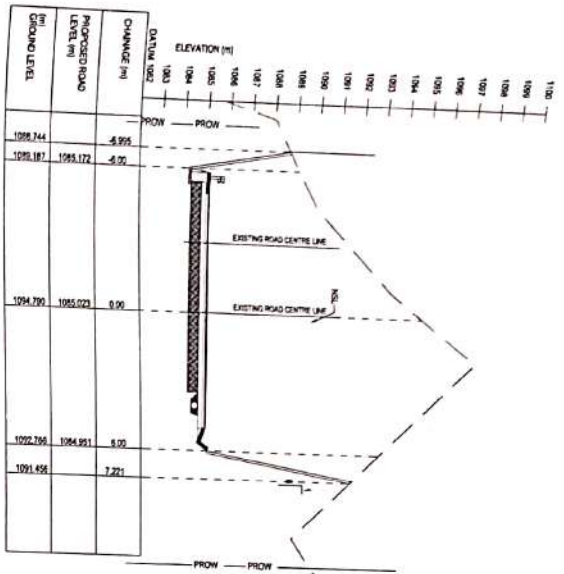
SCALE

1:200 (A2)

SCALE

1:200 (A2)





OWNER ENGINEERING: **SAFETY CONSULTANT:** **EPC CONTRACTOR:**

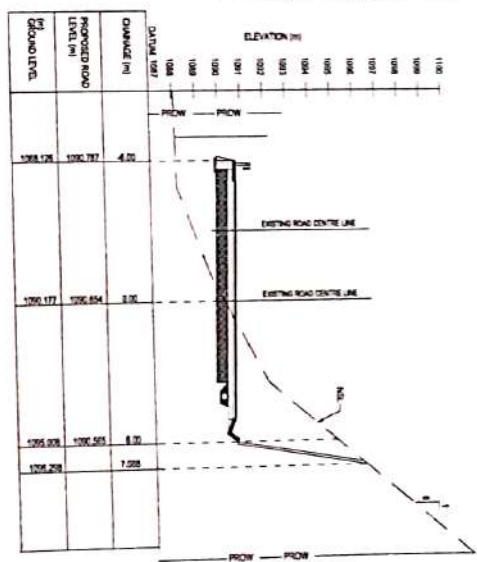
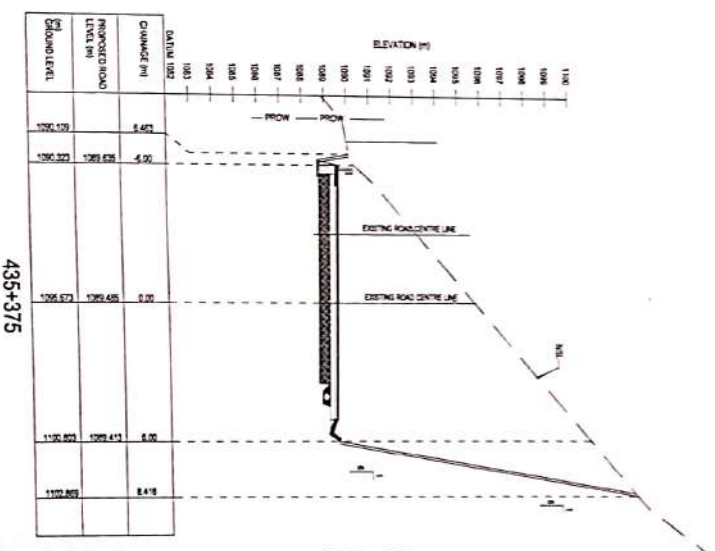
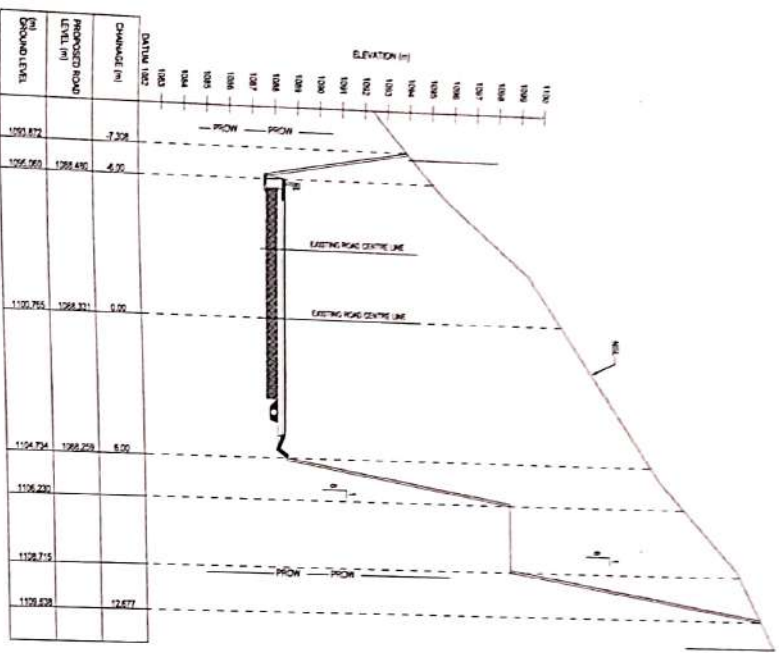
PROOF CONSULTANT: **PROJECT:** CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 448.000 OF CHANGU TO PAHANG (EXCLUDING KM 437.625 TO KM 437.775, KM 438.000 TO KM 438.075 AND CHODHAM PARPOKIN ON EPC BASIS IN THE STATE OF ULTRAHAND (PKG-III))

REV **DATE** **DESCRIPTION** **SCALE** **1:100 (A1)** **1:200 (A2)** **1:200 (A3)**

DRAWN BY: AS **DESIGNED BY:** SK **APPROVED BY:** DK **DRG. NO.:** CPROAD/CS/075 **REVISION:** R-0

TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHANGU 435+250 TO 435+325

OCT-2018



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROFESSIONAL CONSULTANT

PROJECT

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH 4M OF CHANOU TO PANI

REV

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A3)

REVISION R-4

DATE

OCT-2018

NOTES

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED



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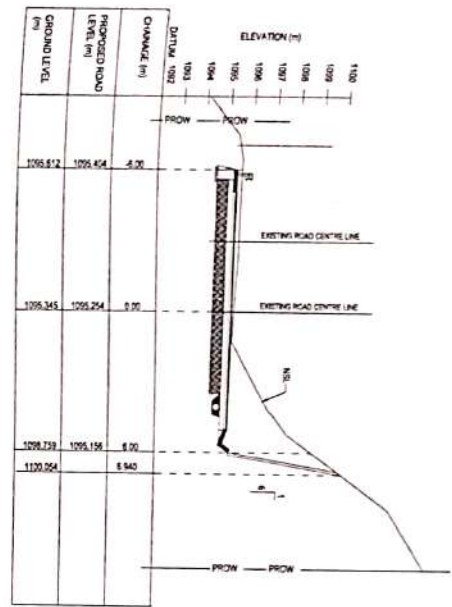
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450000

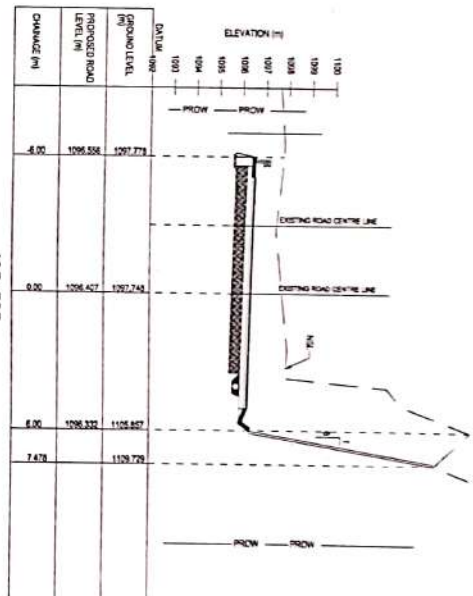
435+725

4354/50

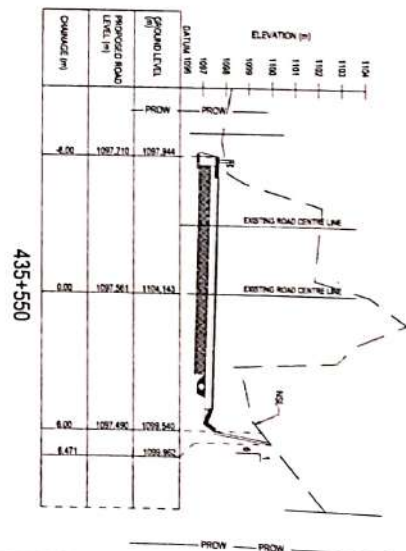
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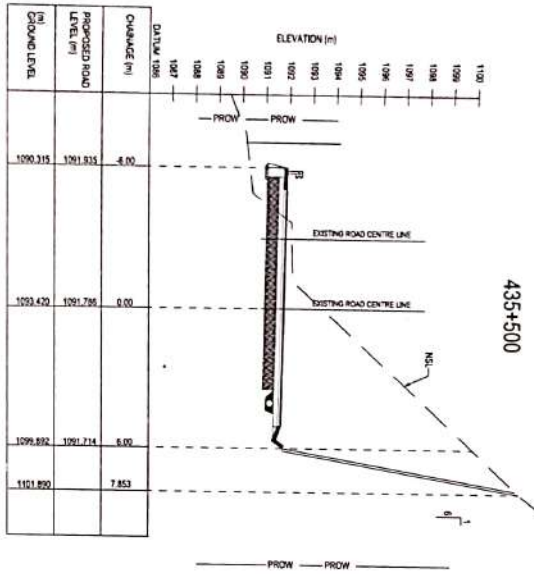
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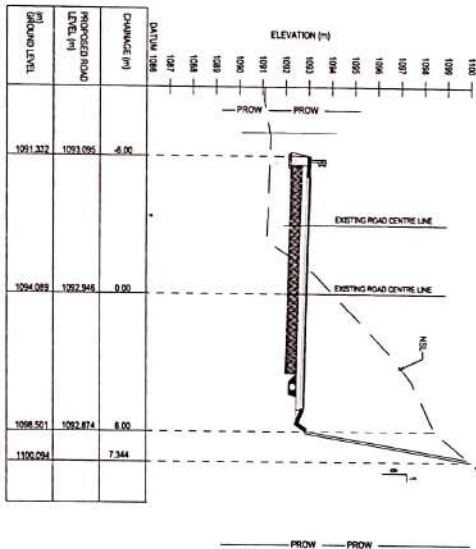
435+525



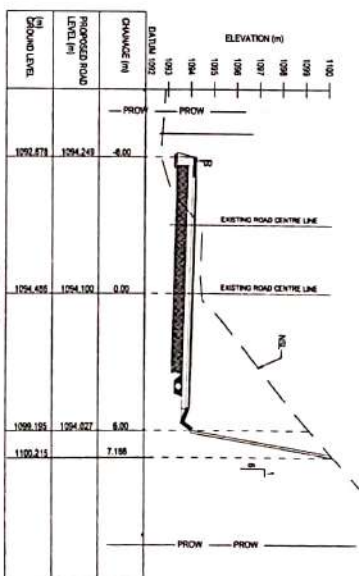
435+550



435+425



435+450



435+475

OWNER ENGINEERING:



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:



MAMMOET ENGINEERS PVT. LTD.

EPC CONTRACTOR:



KGS INFRASTRUCTURE LTD.

PROJECT CONSULTANT:



KGS GLOBAL CONSULTANTS PVT. LTD.

PROJECT:

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 24M WITH PAVED SHOULDER FROM KM 430.000 TO KM 458.000 OF CHANOLI TO PANI (EXCLUDING KM 437.825 TO KM 437.775, KM 458.000 TO KM 459.475 AND KM 454.425 TO KM 454.525) OF NH-47 UNDER CHANDHAN PARIYAJNA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PHG-II)

REV.

DATE

DESCRIPTION

SCALE

1:100 (A1)

1:200 (A2)

REVISION R-D

SCALE

1:100 (A1)

1:200 (A2)

REVISION R-D

SCALE

1:100 (A1)

1:200 (A2)

REVISION R-D

SCALE

1:100 (A1)

1:200 (A2)

REVISION R-D

SCALE

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REVISION R-D

SCALE

1:100 (A1)

1:200 (A2)

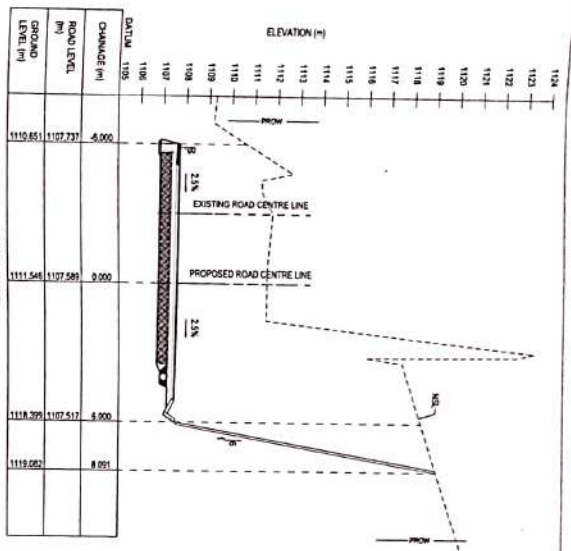
REVISION R-D

SCALE

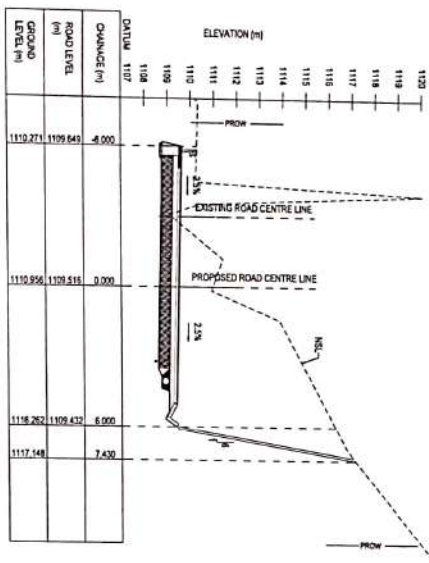
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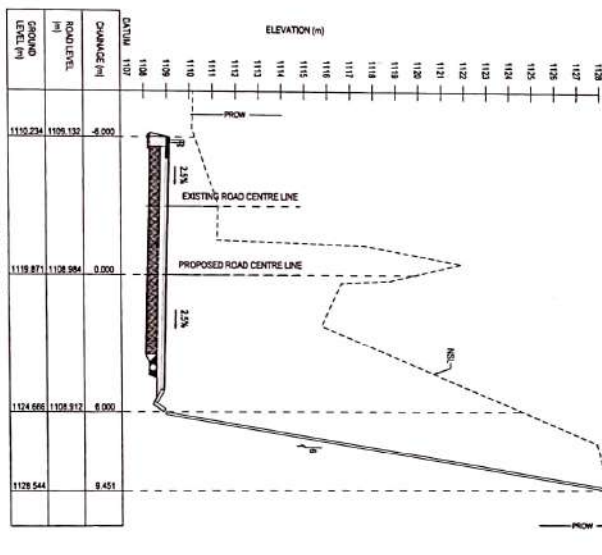




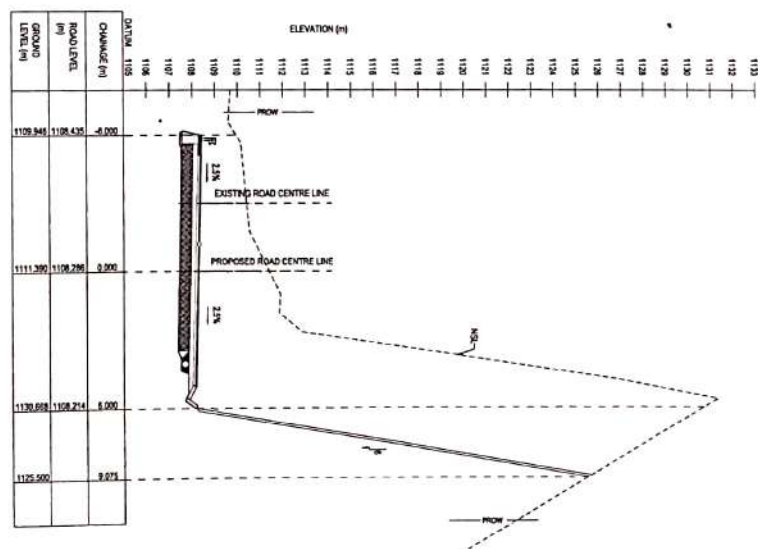
435+950



435+875



435+900



435+925

NOTES: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

OWNER ENGINEERING:
National Highway & Infrastructure
Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:
MME
PVT. LTD. MEPL

EPC CONTRACTOR:
NIG INFRASTRUCTURE LTD.

PROJECT CONSULTANT:
KOC GLOBAL CONSULTANTS PVT. LTD.
30, Kalyaneshwari, 1st Floor,
New Delhi, India - 110015
www.kocglobal.com

PROJECT:
CONSTRUCTION & UPGRADE OF EXISTING
ROAD TO 2-LANE WITH PAVED SHOULDERS FROM
KM 430.000 TO KM 468.000 OF CHANOLI TO PAUNI
(EXCLUDING KM 437.825 TO KM 437.775, KM 458.800
TO KM 459.415 AND KM 464.425 TO KM 464.525) OF
NH-07 UNDER CHANOLI-KM 468.000 EPC
BASIS IN THE STATE OF UTTARANCHAL (P.K.S.)

REV	DATE	DESCRIPTION

DRAWN BY:	AS
DESIGNED BY:	SK
APPROVED BY:	DK
SCALE:	1:100 (A1) 1:200 (A2)

TITLE:	PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 435+875 TO 435+950
DRG NO:	CPH/NO/CS/079
REVISION:	R-0
	OCT-2018

NOTES:



NOTES:

OWNER ENGINEERING :

National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

SAFETY CONSULTANT :

MANOMAY ENGINEERS PVT. LTD. MPE

EPC CONTRACTOR :

M&G INFRASTRUCTURE LTD.

PROJECT CONSULTANT :

KOC GLOBAL CONSULTANTS PVT. LTD.

301, 4th Floor, Sector 44, Gurgaon
Haryana - 122002
www.kocglobalconsultants.com

PROJECT :

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 436+000 TO KM 488+000 OF CHENNAI Bypass (ECCHALING ROAD AND KM 424+425 TO KM 444+253 OF NH-47 UNDER CHARCHANA PARITOSHANA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKC-II)

REV	DATE	DESCRIPTION

DRAWN BY : AS

DESIGNED BY : SK

APPROVED BY : DK

SCALE : 1:100 (A1)

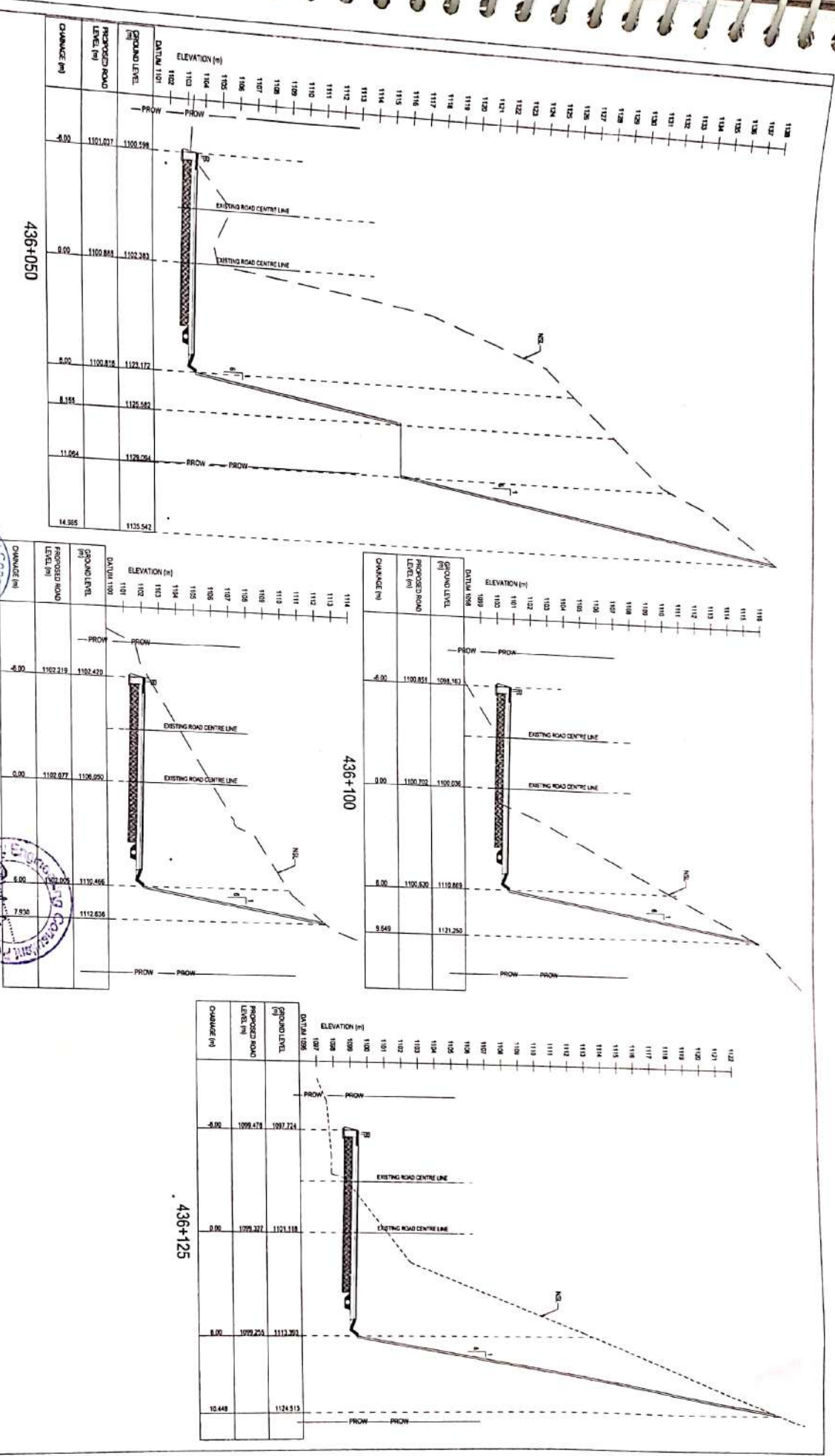
TITLE : PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 436+050 TO 436+125

DRG NO. : CPROAD/CS/081

REVISION : R-0

OCT-2018

NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED





SAFETY CONSULTANT
AME
MAHARAJA ENGINEERS
PVT. LTD. MEERUT

EPC CONTRACTOR
PRAGATI
PRAGATI INFRASTRUCTURE LTD.

PROJECT CONSULTANT
KGC & S. S. Consultants Pvt. Ltd.
K. G. Chaudhary & S. S. Chaudhary
New Delhi, India
www.kgcandss.com

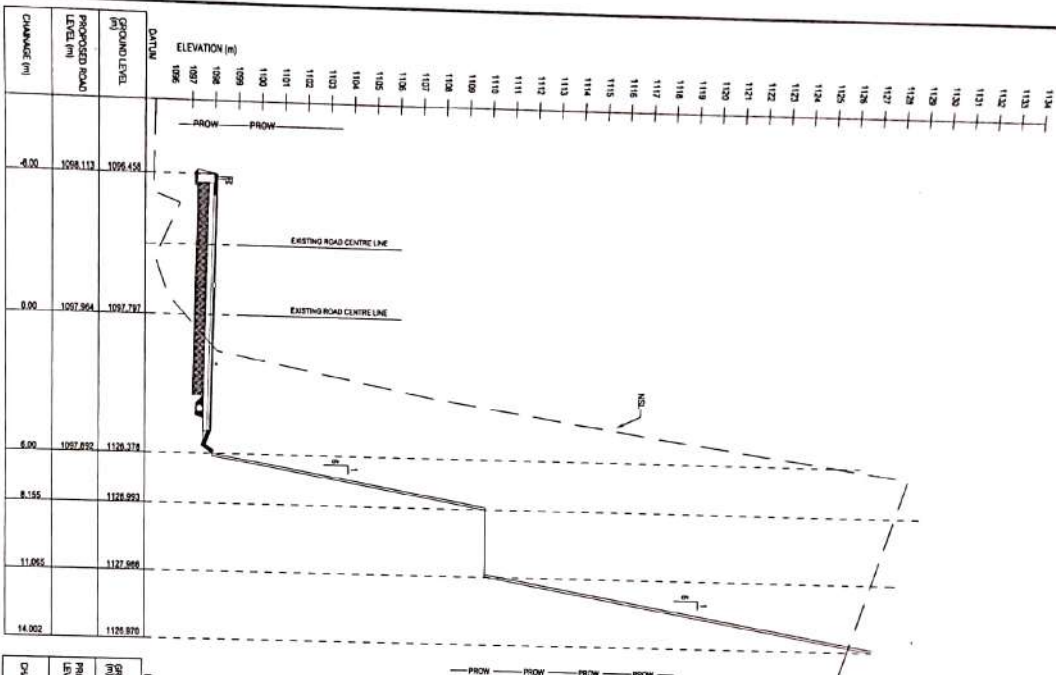
PROJECT
CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH GRADED SHOULDERS FROM KM 436+150 TO KM 436+200 (EXCLUDING KM 437.625 TO KM 437.775, KM 438.800 TO KM 439.475 AND KM 444.425 TO KM 444.575) OF NH-47 UNDER CHARDHAWA PARIVAHAN ON EPC BASIS IN THE STATE OF UTTARAKHAND (PK-III)

REV	DATE	DESCRIPTION
1		

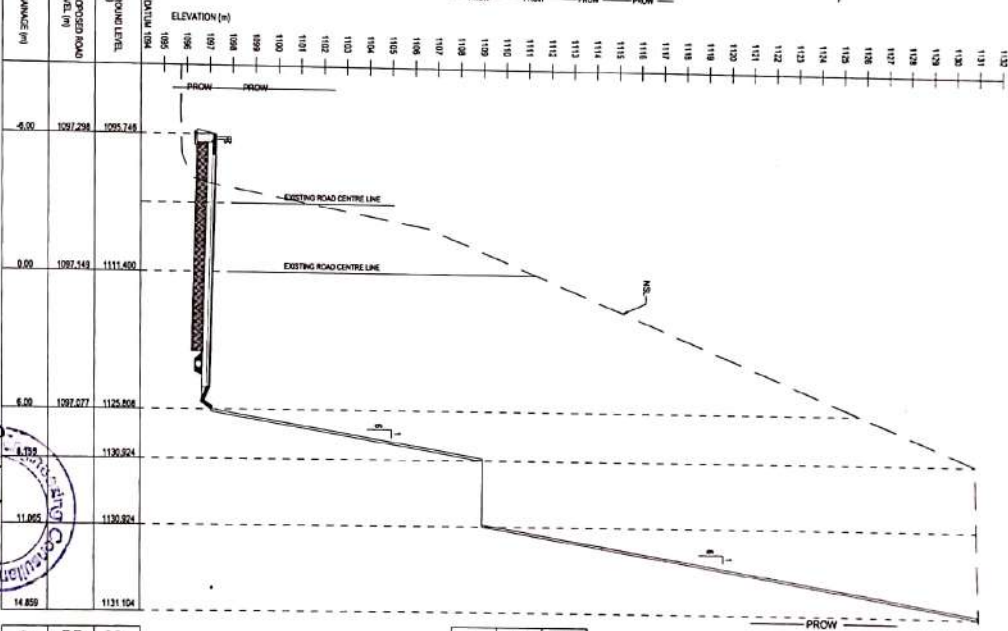
DRAWN BY AS
DESIGNED BY SK
APPROVED BY DK
SCALE 1:100 (A1)
1:200 (A2)

TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00M FROM CHAINAGE 436+150 TO 436+200
DRG. NO. CP/ROADS/092
REVISION R/O OCT-2018

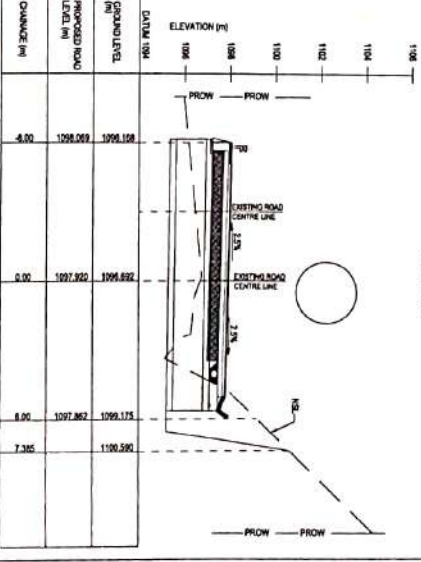
436+150



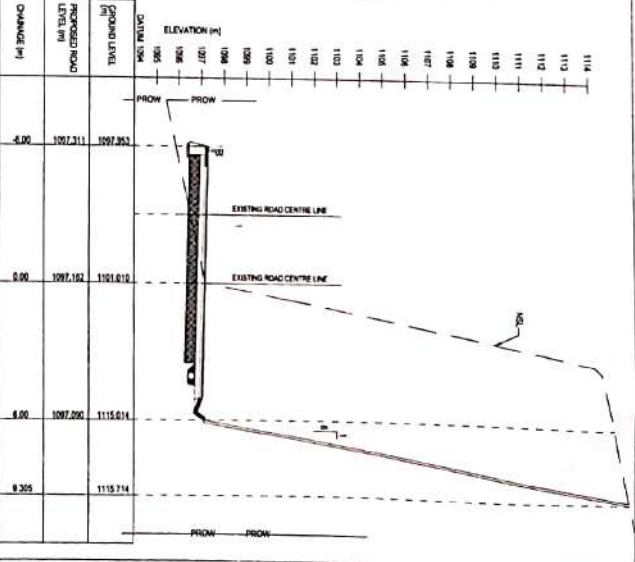
436+175

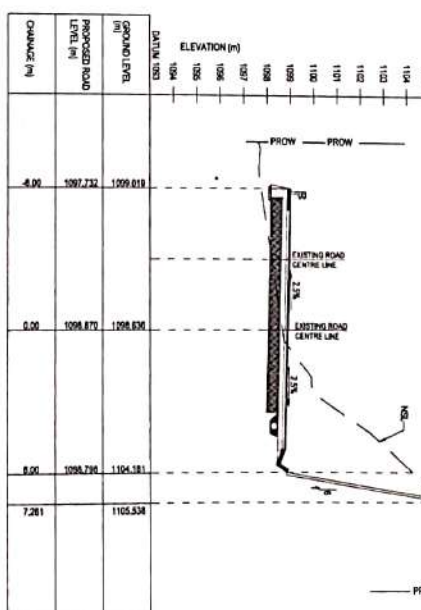
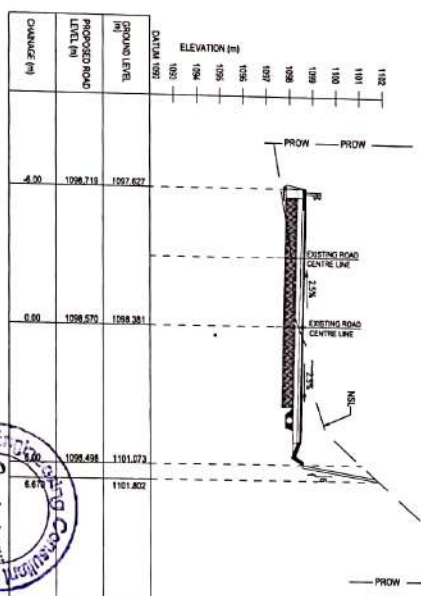
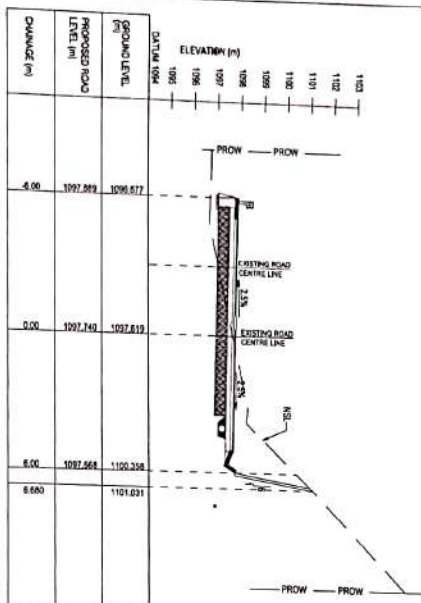
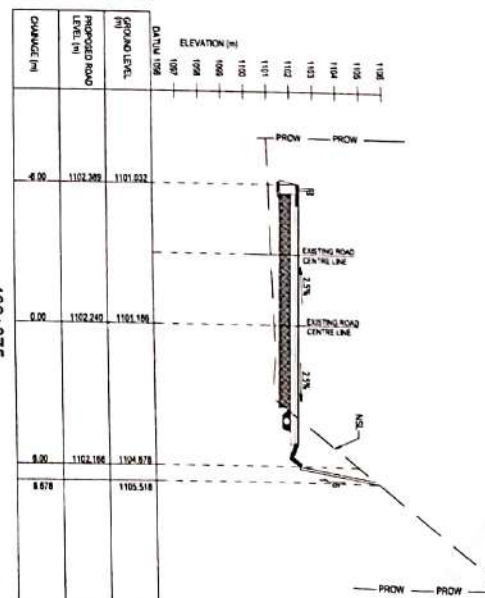
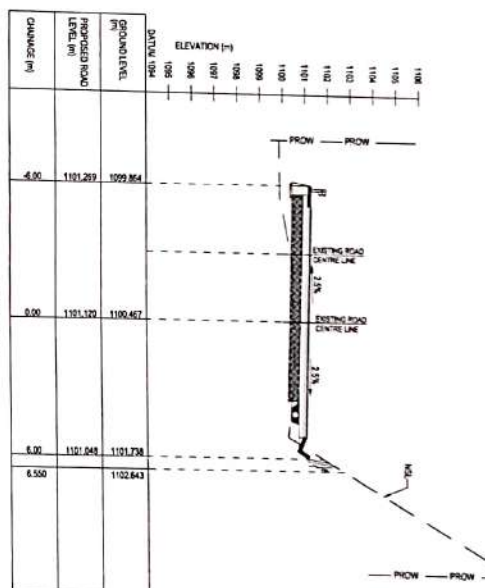
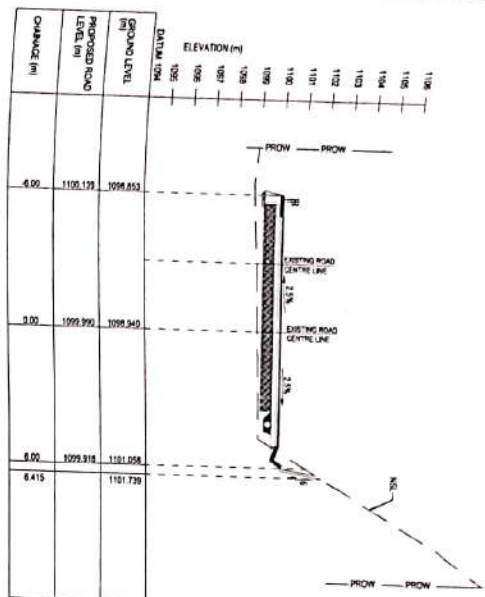


436+225



436+200





OWNER ENGINEERING:



National Highway & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:



M&M ENGINEERS
PVT LTD MEPE

EPC CONTRACTOR:



S. K. V. K. S. INFRASTRUCTURE LTD.

PROJECT CONSULTANT:



K. S. V. K. S. INFRASTRUCTURE PVT LTD

PROJECT:

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430 000 TO KM 438 000 OF CHANGLI TO PANI (EXCLUDING KM 437 828 TO KM 437 775, KM 438 800 TO KM 438 475 AND KM 438 425 TO KM 438 325 OF CHANGLI TO PANI) ON THE NATIONAL HIGHWAY 436 IN THE STATE OF UTTARANCHAL (P&ID-III)

REV

DATE

DESCRIPTION

SCALE

DRAWN BY

AS

DESIGNED BY

SK

APPROVED BY

DK

DRG NO

CP/ROADS/083

REVISION

R-0

TITLE

PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHANGLI 436+250 TO 436+375

DATE

OCT-2018

OWNER ENGINEERING:
National Highways & Infrastructure
Development Corporation Ltd (NHIDCO)

SAFETY CONSULTANT:
PME
MANOJAV ENGINEERS
PVT. LTD. MEPL

EPC CONTRACTOR:
MKG
MKG INFRASTRUCTURE LTD.

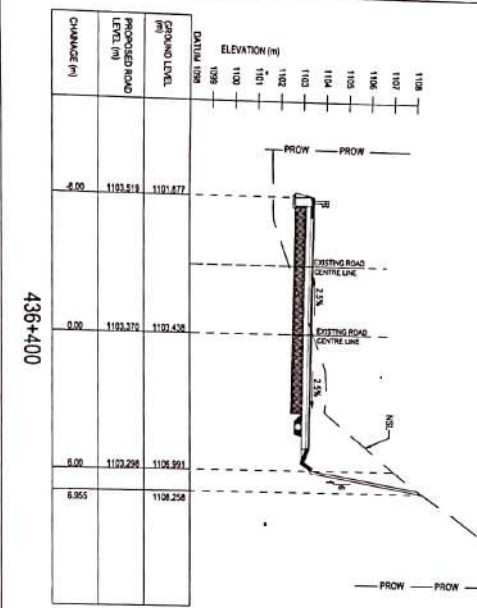
PROJECT CONSULTANT:
KOC GLOBAL CONSULTANTS PVT. LTD.
301, Kalyani, Sector 14, Gurgaon,
Haryana 122009, India
www.kocglobal.com

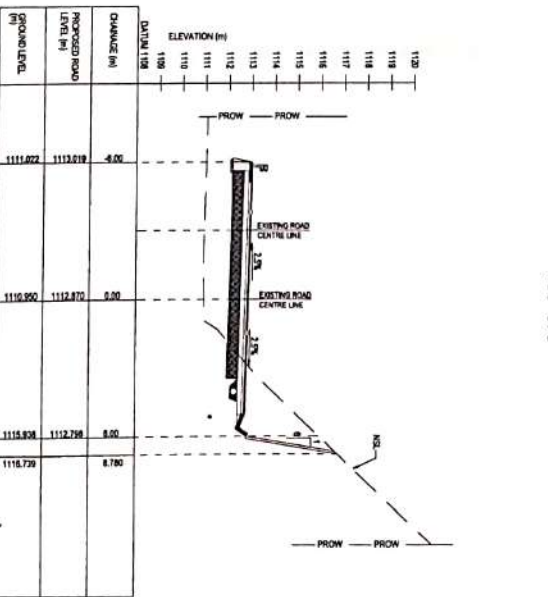
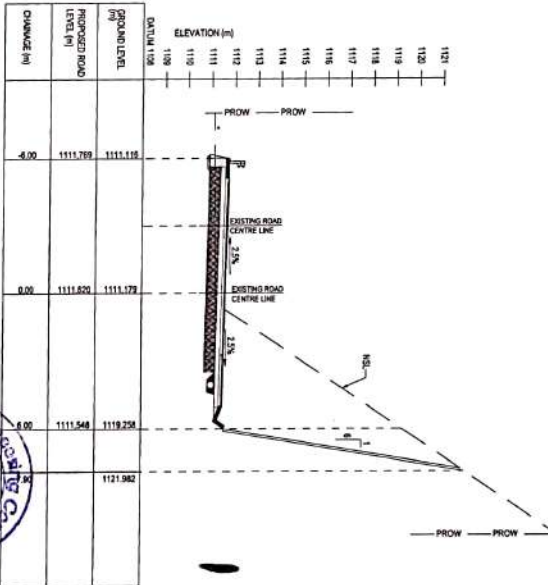
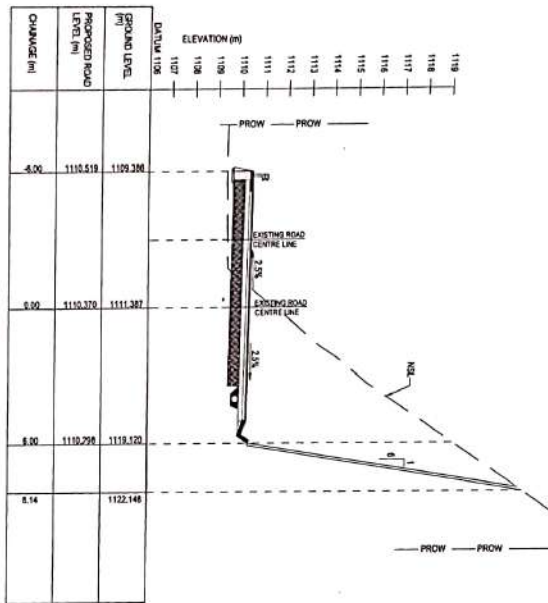
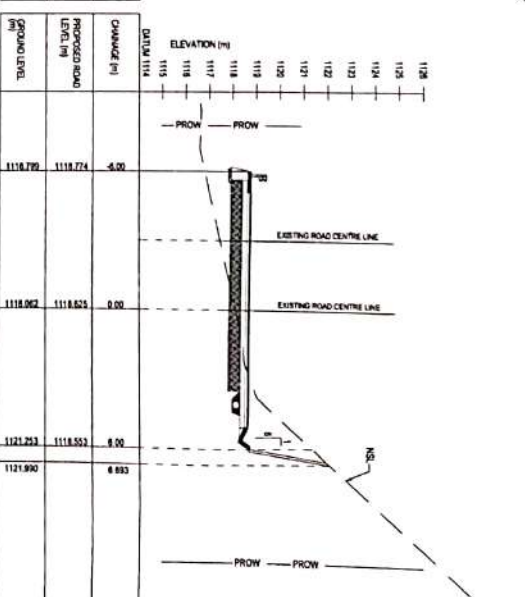
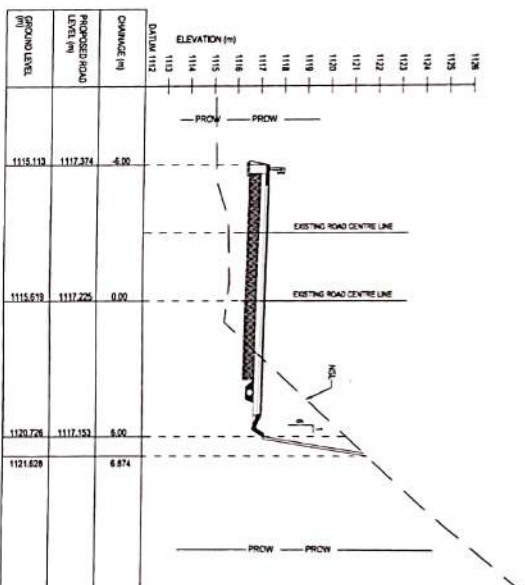
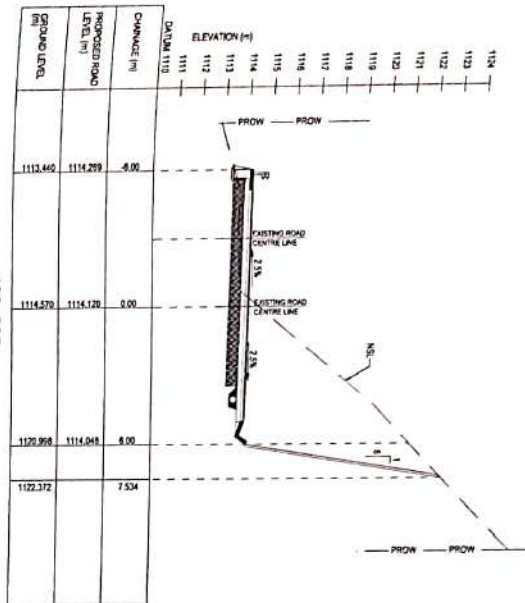
PROJECT:
CONSTRUCTION & UPGRADATION OF EXISTING
ROAD TO 2-LANE WITH PAVED SHOULDERS FROM
KM 436+000 TO KM 436+500 OF CHANOLI TO PAMALI
ROAD, NH-07, DISTRICT KANAKUR, KARNATAKA
TO KM 436+475 AND KM 436+425 TO KM 436+450 OF
NH-07 UNDER CHANDRAMA PARITODANA ON EPC
BASIS IN THE STATE OF KARNATAKA (PG-III)

REV	DATE	DESCRIPTION

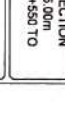
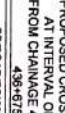
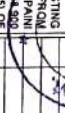
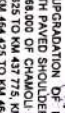
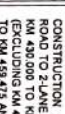
SCALE: 1:100 (A1)
1:200 (A2)

DRAWN BY: AS
DESIGNED BY: SK
APPROVED BY: DK
DRG NO: CP/ROAD/CS/004
REVISION: R-0
OCT. 2018





OWNER ENGINEERING
SAFETY CONSULTANT
EPC CONTRACTOR
PROJECT
CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH RAVED SHOULDER TO PAINT (EXCLUDING KM 437.825 TO KM 437.775 KM 434.800 TO KM 439.415 AND KM 434.425 TO KM 434.525) OF NH-07 UNDER CHANDHAN PANYOLIA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PGC-II)



REVISION R-0

DATE

DESCRIPTION

SCALE 1:100 (A1)

APPROVED BY SK

DESIGNED BY SK

DRAWN BY AS

TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 436+550 TO 436+675

DRG NO. CPM/ADCS/085

REVISION R-0

DATE

DESCRIPTION

SCALE 1:100 (A1)

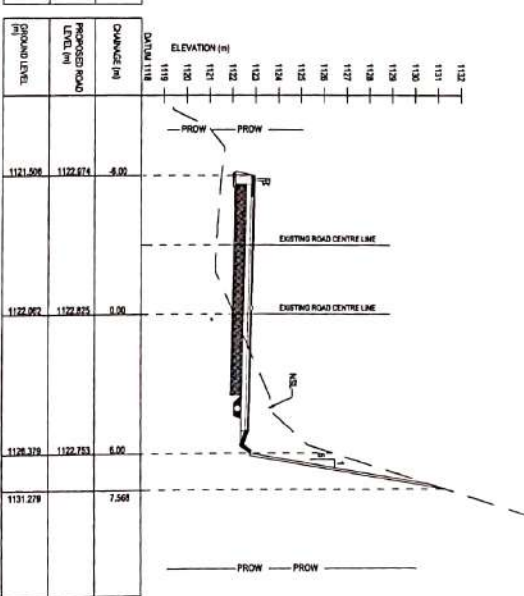
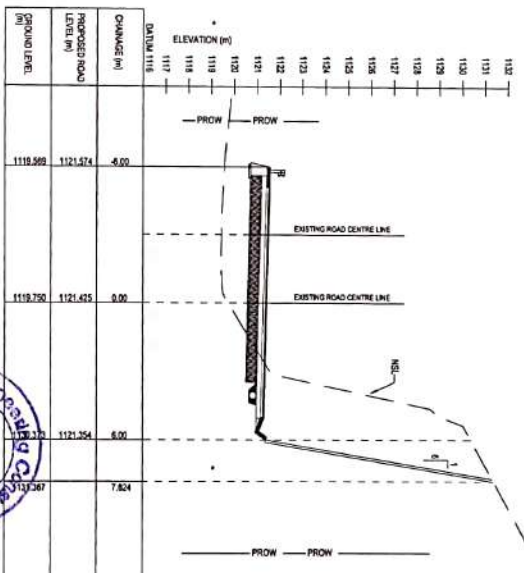
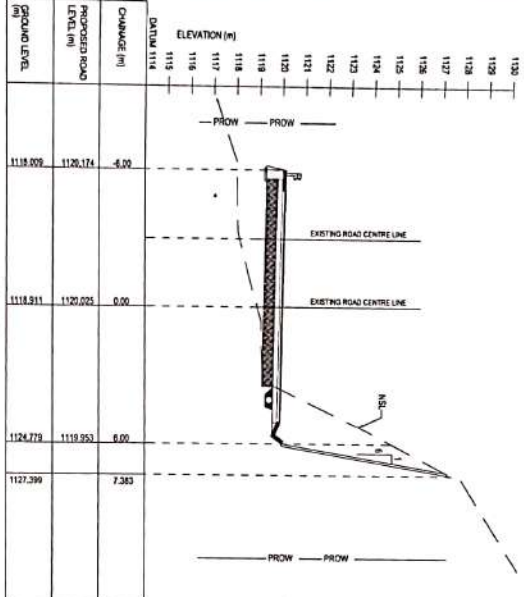
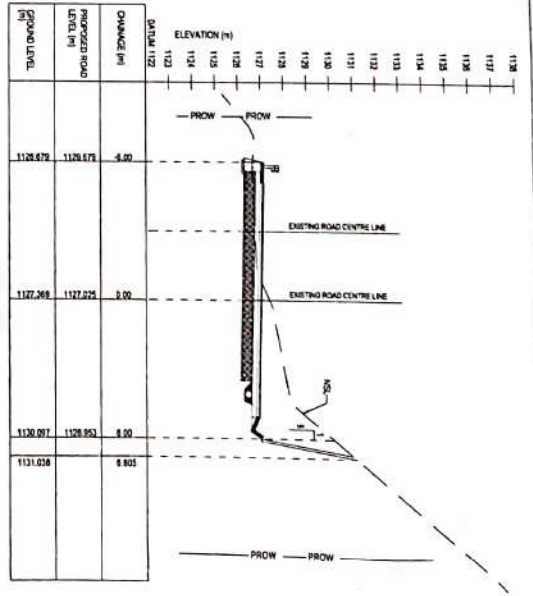
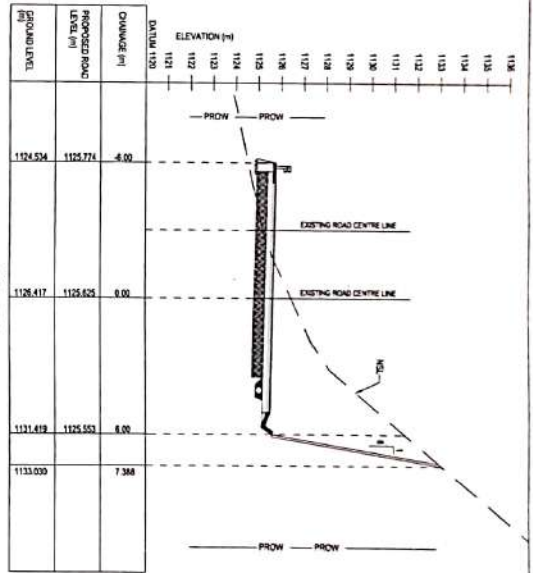
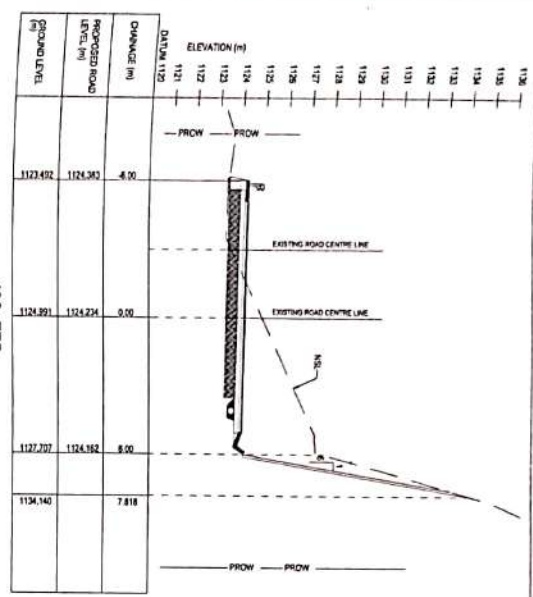
APPROVED BY SK

DESIGNED BY SK

DRAWN BY AS

TITLE PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 436+550 TO 436+675

DRG NO. CPM/ADCS/085

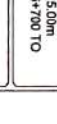
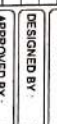
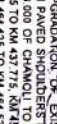
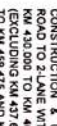


436+700

436+725

436+750

OWNER ENGINEERING : SAFETY CONSULTANT : EPC CONTRACTOR : PROJECT : CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANOLI TO PAVI (EXCLUDING KM 437.625 TO KM 437.775, KM 438.800 TO KM 439.425 AND KM 443.425 TO KM 444.525) OF THE NATIONAL HIGHWAY 436/700 ON THE BASIS IN THE STATE OF UTTARANCHAL (P.O.C.H.)



REVISION : 1.100 (A1) 1.200 (A2) OCT. 2018



OWNER ENGINEERING

MANOMAV ENGINEERING
PUTLID MEPL



SAFETY CONSULTANT

MKG INFRASTRUCTURE LTD



EPC CONTRACTOR



PROOF CONSULT

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDER FROM KM 430.00 TO KM 458.00 OF CHAMOLI TO PAINI (EXCLUDING KM 437.625 TO KM 437.775, KM 455.800 TO KM 459.475 AND KM 464.425 TO KM 464.525) ON NH-07 UNDER CHANDRAM PARPOJYA, AN EDC BASIS IN THE STATE OF UTTARACHAND (PKG-III)

[illegible]

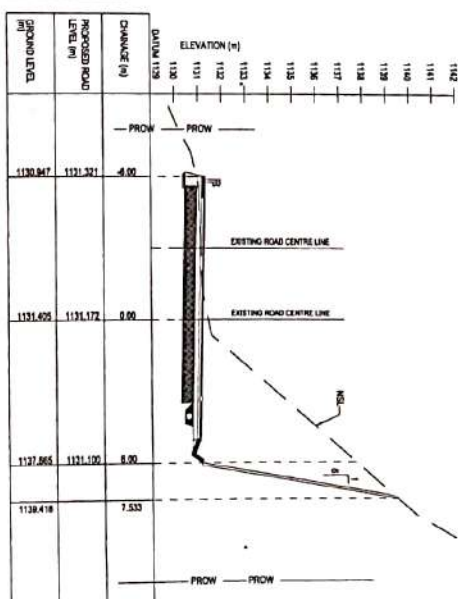
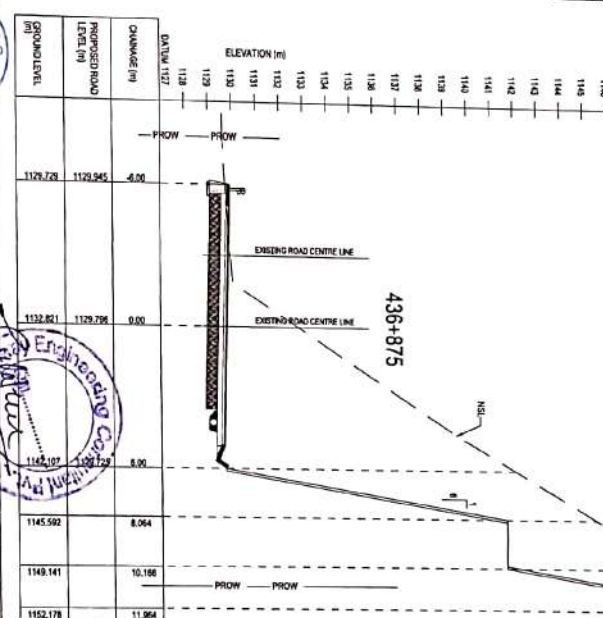
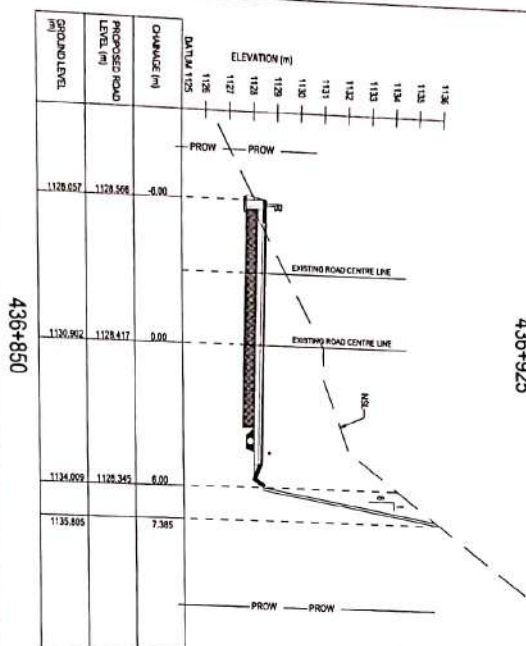
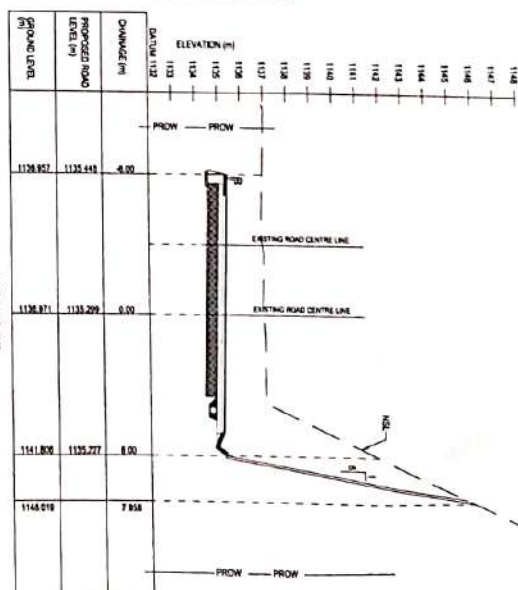
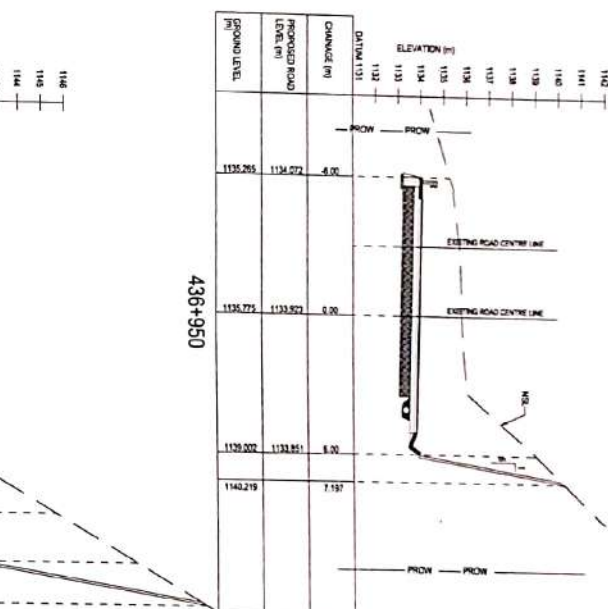
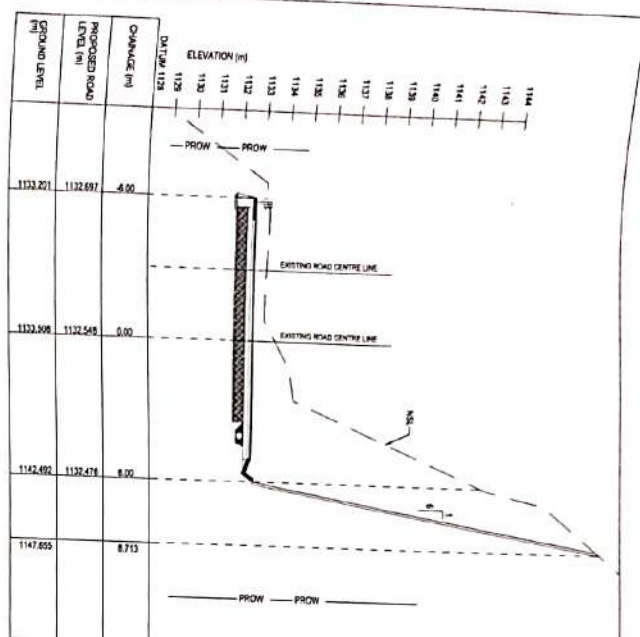
UNAVIN BY	AS
DESIGNED BY	SK
APPROVED BY	DK
SCALE	1:100 (A1) 1:200 (A2)

AT INTERVAL OF 25.00m
FROM CHAINAGE 436+85.00 TO
436+91.75

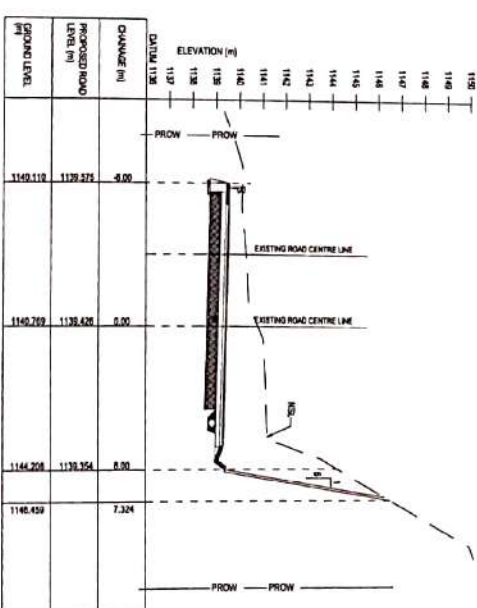
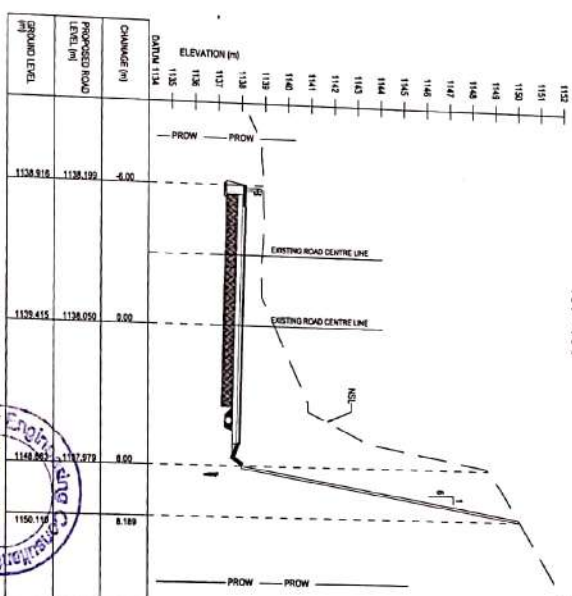
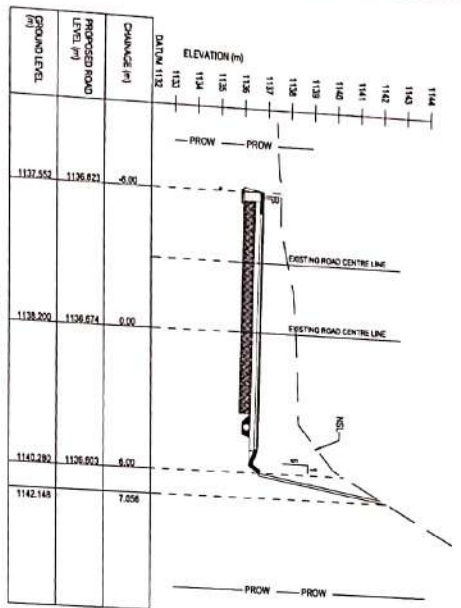
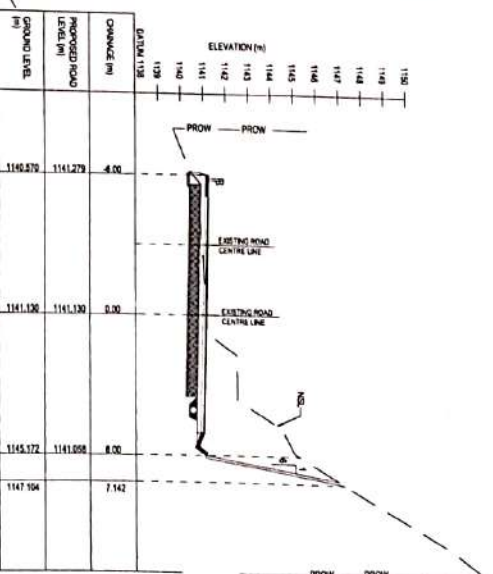
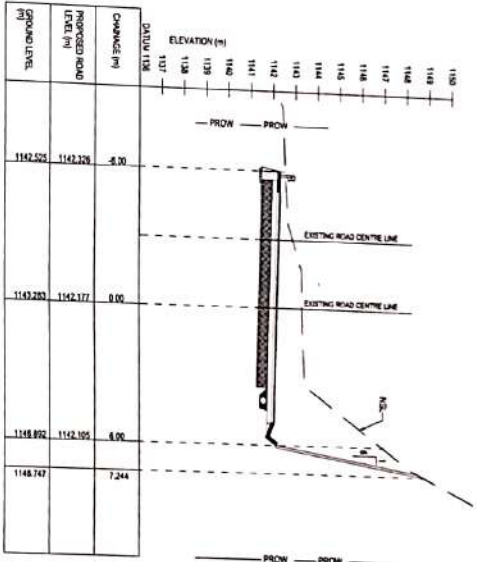
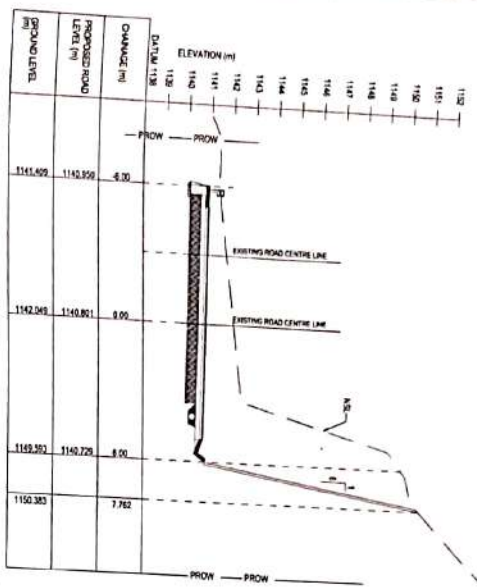
DRG. NO. CPROAD/C/S/087

REVISION R-0

OCT-2018



NOTES -
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED



OWNER ENGINEERING: National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT: MAMONKAV ENGINEERS PVT LTD MEPL

EPC CONTRACTOR: KMG INFRASTRUCTURE LTD

PROOF CONSULTANT: KMG GLOBAL CONSULTANTS PVT LTD

PROJECT: CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD TO PLANE WITH PAVED SHOULDER (FROM KM 430.000 TO KM 438.000 OF CHANOLI TO PANI) (EXCLUDING KM 437.625 TO KM 437.775, KM 438.800 TO KM 439.475 AND KM 444.425 TO KM 444.525 OF NH-47 UNDER CHARCHAM PANYCANA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PG-III)

REV **DATE** **DESCRIPTION**

SCALE 1:100 (A1) 1:200 (A2)

DATE OCT-2018

DESIGNED BY: SK

APPROVED BY: DK

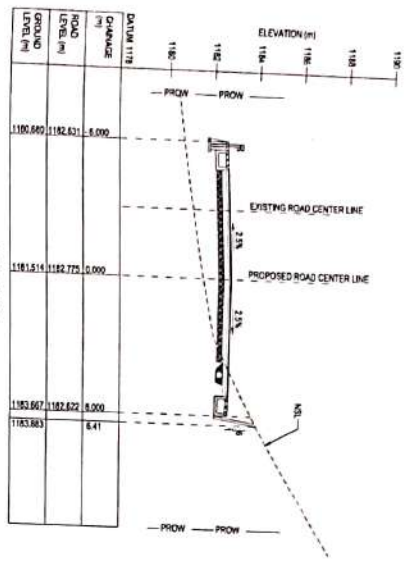
DRG NO: CPO/ROADS/088

REVISION: R-0

TITLE: PROPOSED CROSS SECTION AT INTERVAL OF 25.00m FROM CHAINAGE 437+000 TO 437+125

RUDRAPRAYAG

MANA VILLAGE



RUDRAPRAYAG

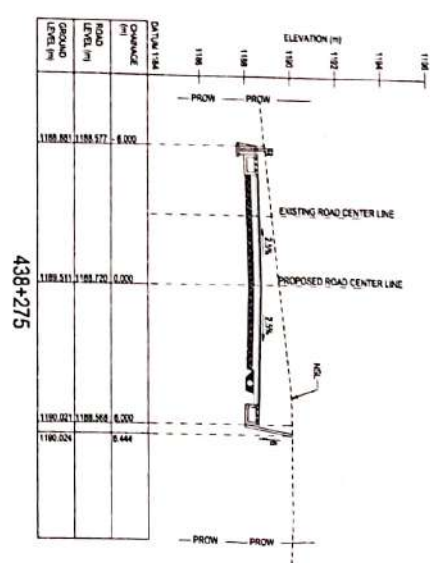
MANA VILLAGE



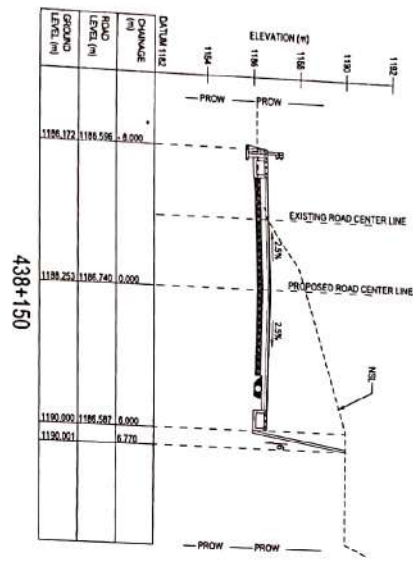
438+225



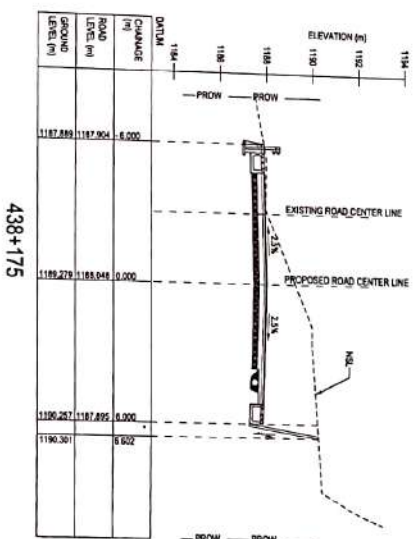
438+250



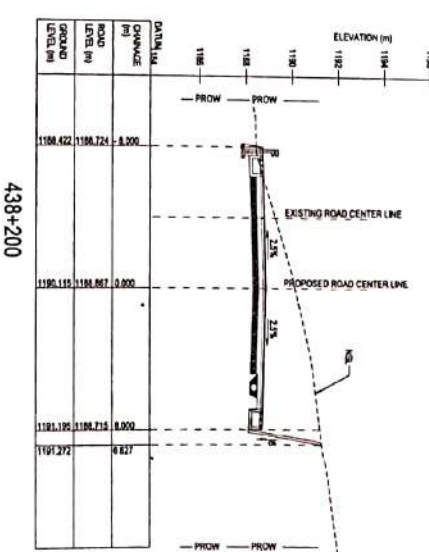
438+275



438+150



438+175



438+200

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT



National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)



M&M ENGINEERS PVT. LTD. MEPE



NKG INFRASTRUCTURE LTD



KGC ROAD CONSULTANTS PVT. LTD. New Delhi, India. Ph: 110075

CONSTRUCTION & RECONSTRUCTION OF EXISTING ROAD TO 3 LANE WITH AVENUE SHOULDER FROM KM 430.000 TO KM 438.000 OF CHANDANU TO PAINI (EXCLUDING KM 437.525 TO KM 437.775, KM 438.000 TO KM 439.475 AND KM 444.425 TO KM 444.525) OF NH-47 UNDER CHANDANU PARTIAL ON EPC BASIS IN THE STATE OF UTTARANCHAL (PNC-II)

DRAWN BY: AS

TITLE: PROPOSE CROSS SECTION AT INTERVAL OF 25.00M 438+150 TO 438+275

DESIGNED BY: SK

DRG NO: CP/ROAD/PP/093

APPROVED BY: DK

REVISION R-0

REV DATE DESCRIPTION

SCALE: 1:200 (H&V)

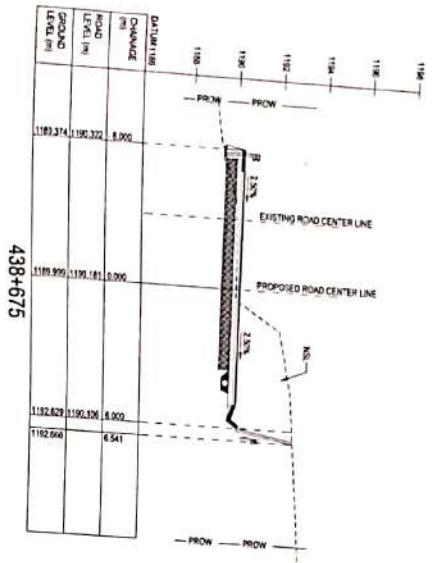
OCT 2018



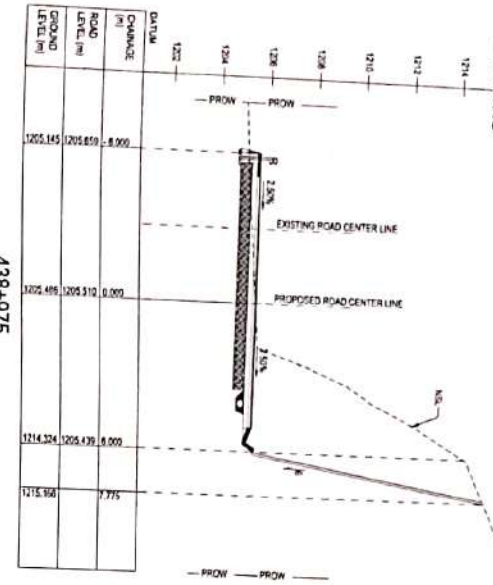
OCT 2018

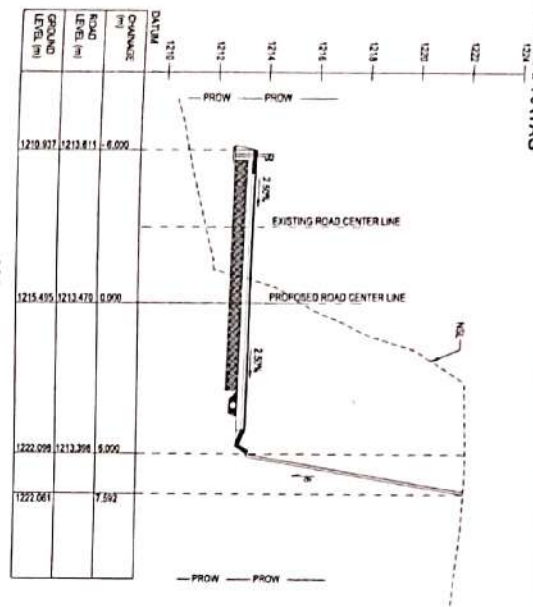
← RUDRAPRAYAG

MANA VILLAGE →

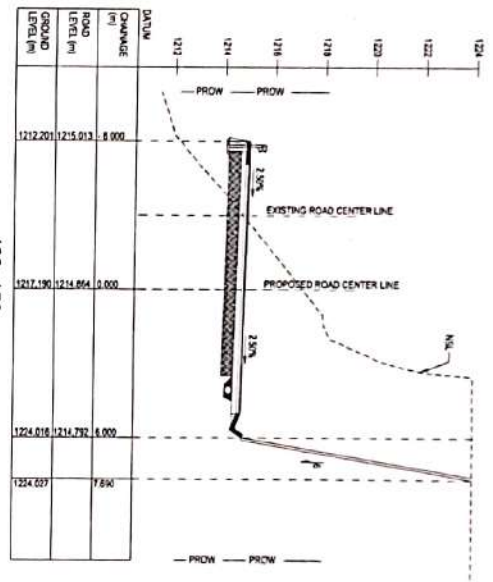


→ RUDRAPRAYAG

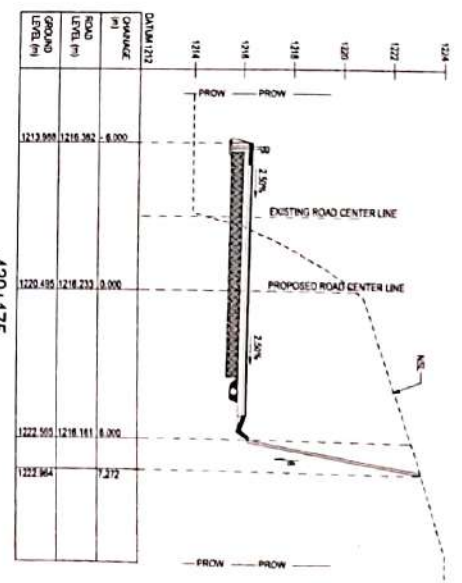




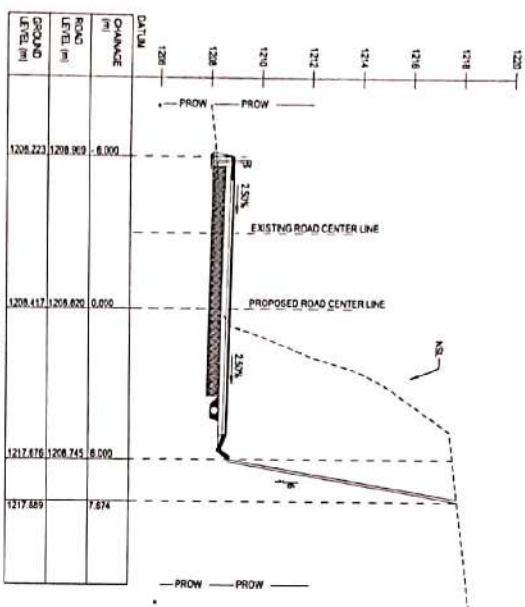
439+125



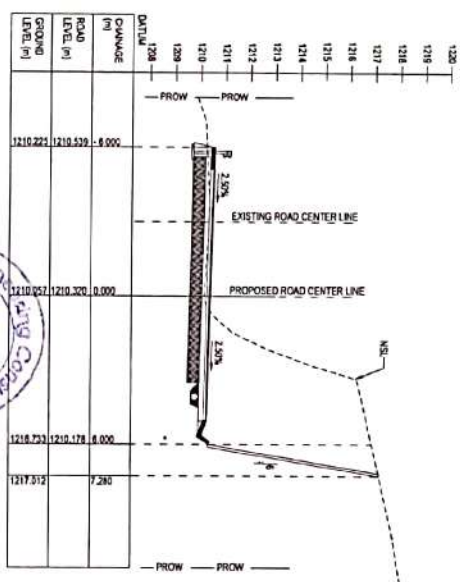
439+150



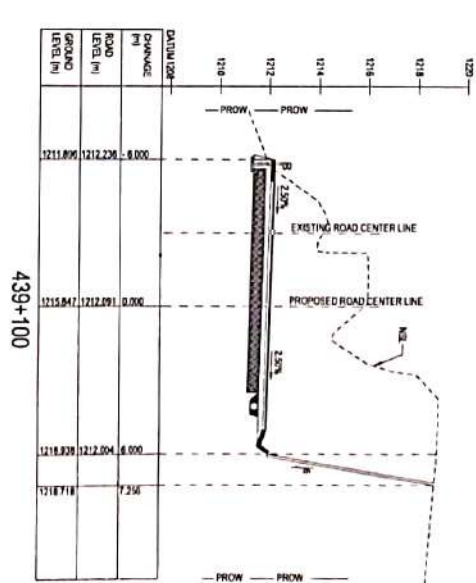
439+175



439+050



439+075



439+100

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 438.000 TO KM 448.000 OF CHANGULI TO PANI (EXCLUDING KM 437.825 TO KM 437.773, KM 438.900 TO KM 439.275 AND KM 444.425 TO KM 444.525) OF NH-07 UNDER CHANDIMAN PANTOLIA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PG-041)

REV DATE DESCRIPTION

DRAWN BY AS
DESIGNED BY SK
APPROVED BY DK

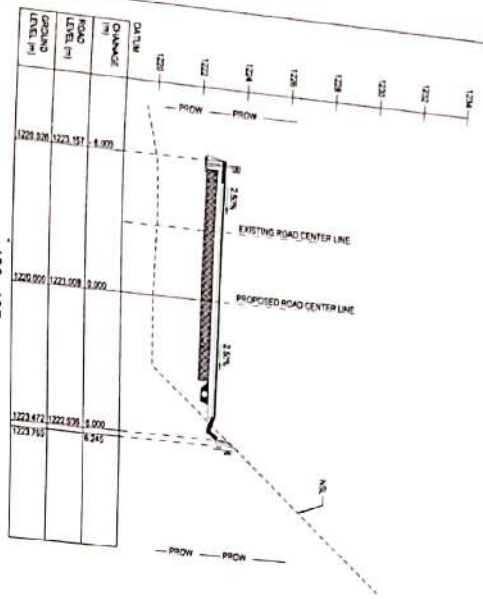
TITLE PROPOSE CROSS SECTION AT INTERVAL OF 25.00M 439+050 TO 439+175

SCALE 1:200 (HOB) 1:200 (VER)

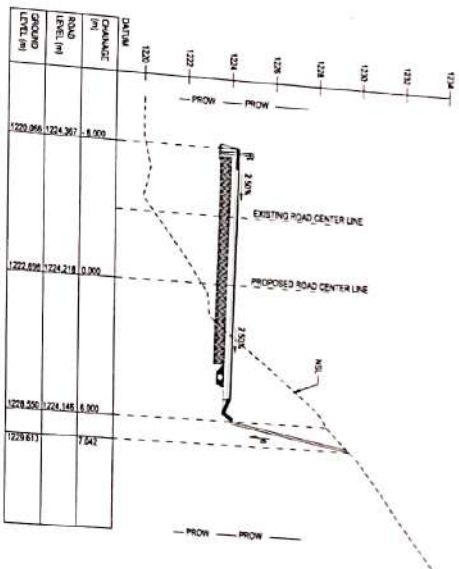
REVISION R-0

OCT 2018

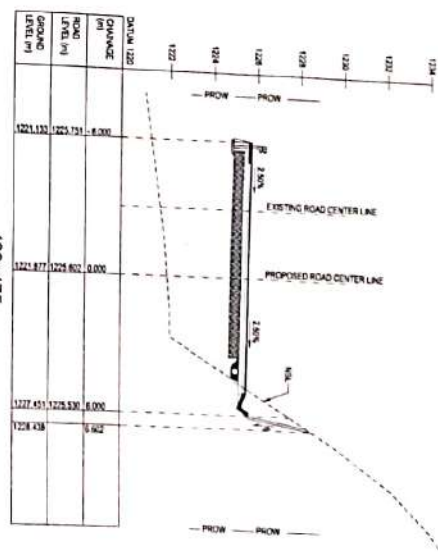
RUDRAPRAYAG



439+425

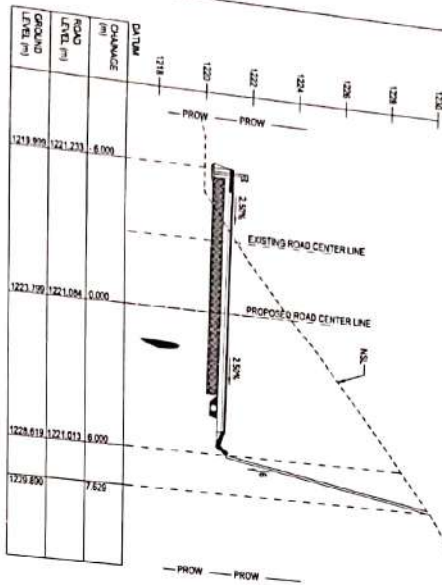


439+450

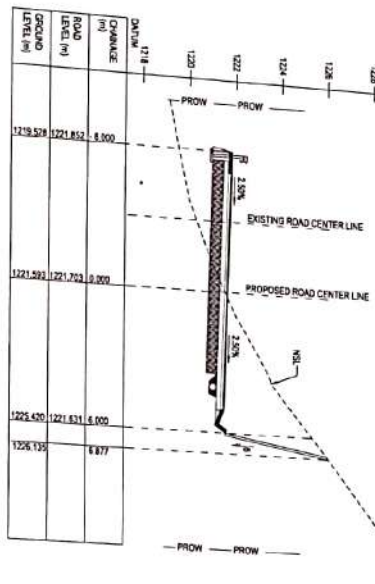


439+475

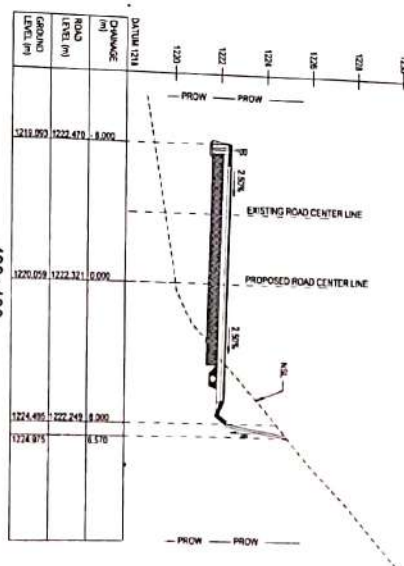
MANA VILLAGE



439+350



439+375



439+400

OWNER ENGINEERING
National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

SAFETY CONSULTANT
MANOMAY ENGINEERS PVT. LTD. MERT

EPC CONTRACTOR
MNC INFRASTRUCTURE LTD

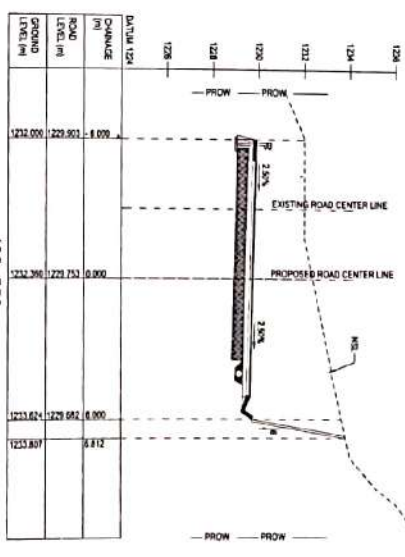
PROJECT CONSULTANT
MNC GLOBAL CONSULTANTS PVT. LTD
301, Kailash, Sector 14, Gurgaon, Haryana
New Delhi, India 122005
www.mncglobalconsultants.com

PROJECT
CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANDOL TO PAUNI (EXCLUDING KM 437.425 TO KM 437.775, KM 454.900 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHANDHAM PARIVAHAN ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKD-II)

REV DATE DESCRIPTION

DRAWN BY AS
DESIGNED BY SK
APPROVED BY DK
SCALE 1:200 (VERT)

TITLE PROPOSE CROSS SECTION AT INTERVAL OF 25.00m 439+350 TO 439+475
DRG NO. CPROAD/PP/100
REVISION R-0
OCT 2018



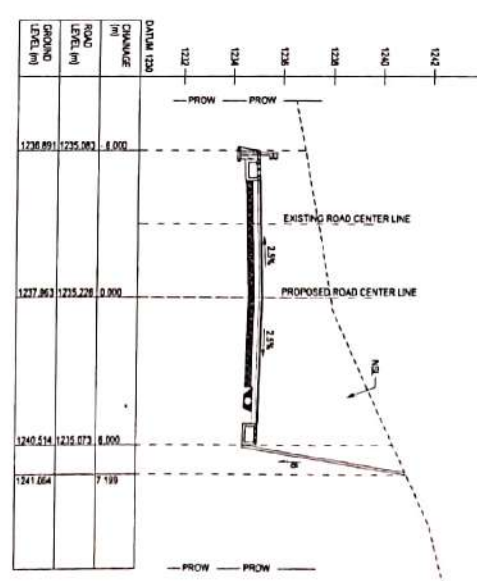
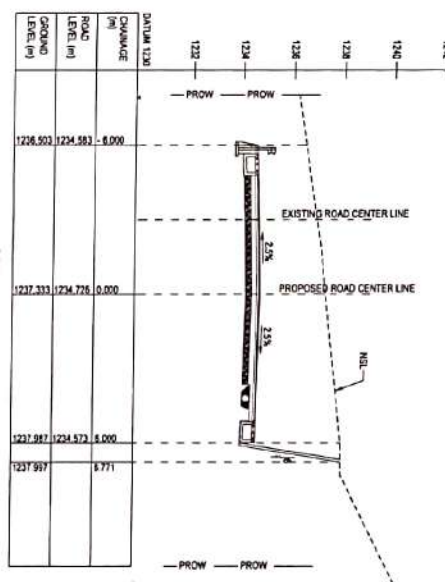
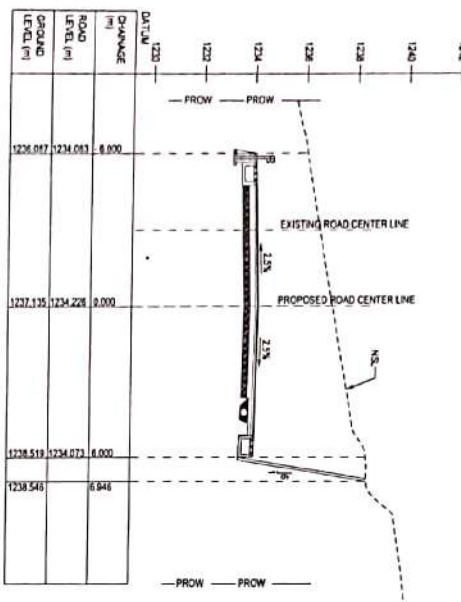
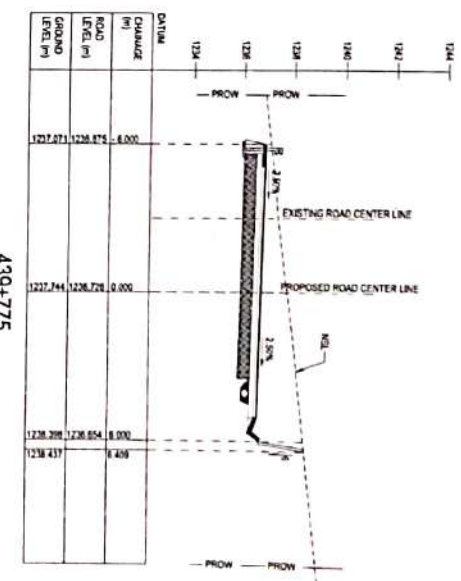
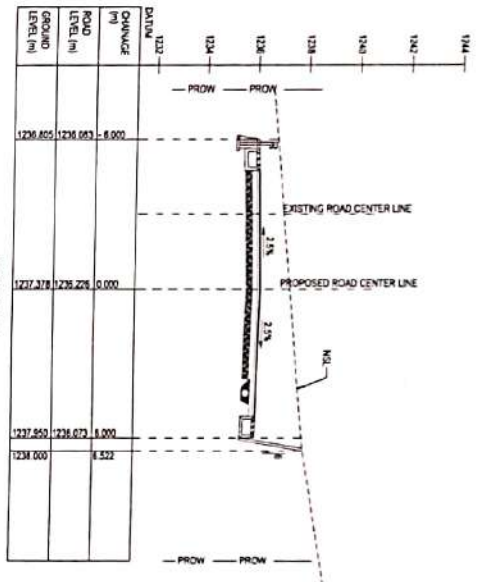
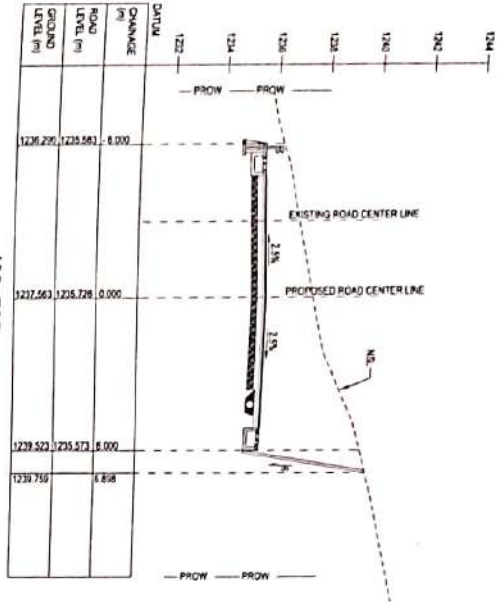
439+550

PROJECT

KAO GLOBAL CONSULTANTS PVT. L.
301 Kalajin, Sector 14, Okhla,
New Delhi, Delhi 110075

www.zoogalib.com

OCT 2010



OWNER ENGINEERING



National Highway & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



MANMAV ENGINEERS PVT LTD MPEL

EPC CONTRACTOR



NKG INFRASTRUCTURE LTD

PROJECT CONSULTANT



MOD SUDAN CONSULTANTS PVT LTD
30, Vaidya, Sector 14, Dindia,
New Delhi, Delhi 110015
www.modsudancs.com

PROJECT

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANDOLI TO PANI (EXCLUDING KM 417.625 TO KM 437.775, KM 458.800 TO KM 459.475 AND KM 464.425 TO KM 464.520) OF NH-47 UNDER CHARDHAM PARVATIA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-III)

REV

REV	DATE	DESCRIPTION

DRAWN BY

AS

TITLE

PROPOSE CROSS SECTION AT INTERVAL OF 25.00m
439+650 TO 439+775

DESIGNED BY

SK

APPROVED BY

DK

SCALE

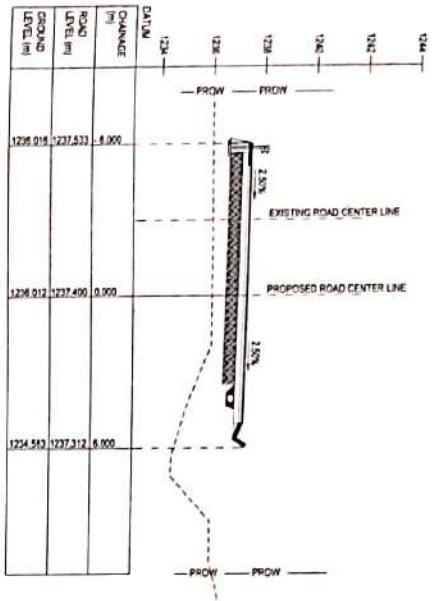
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1:200 (VER)

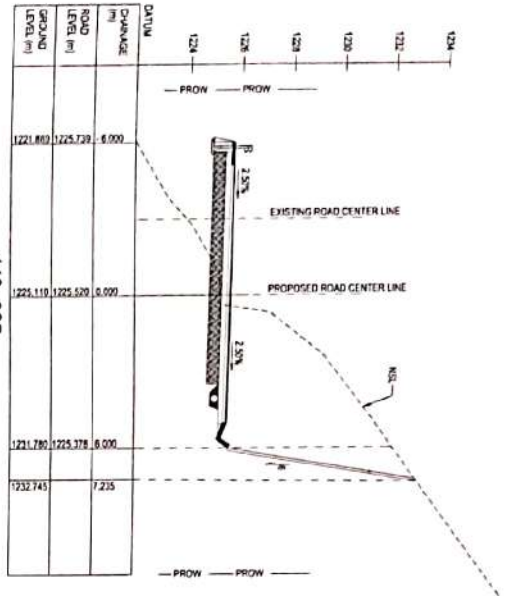
DRG NO

CP/ROAD/PP/102

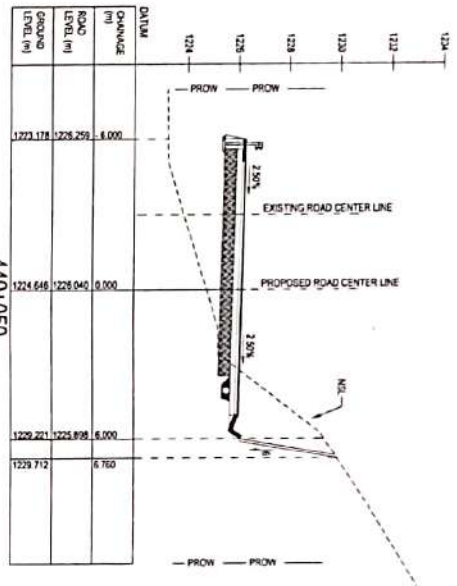
REVISION R-Q

OCT 2018

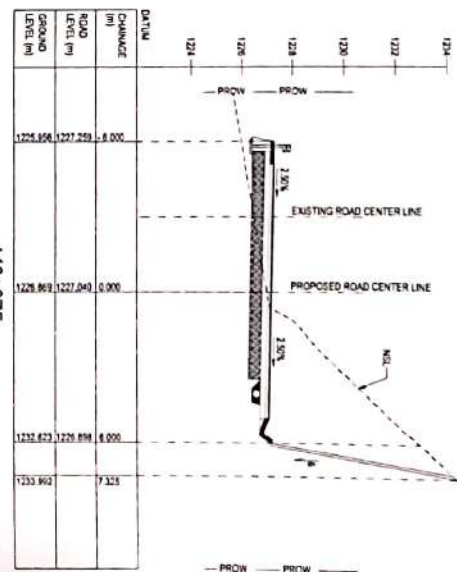




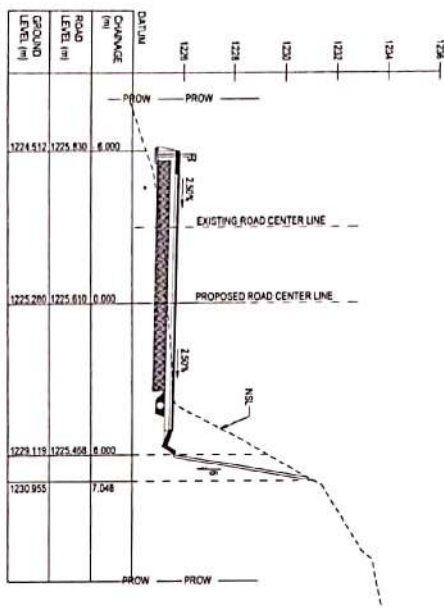
440+025



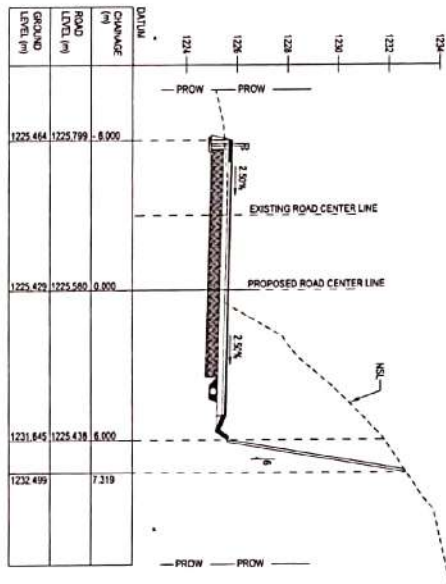
440+050



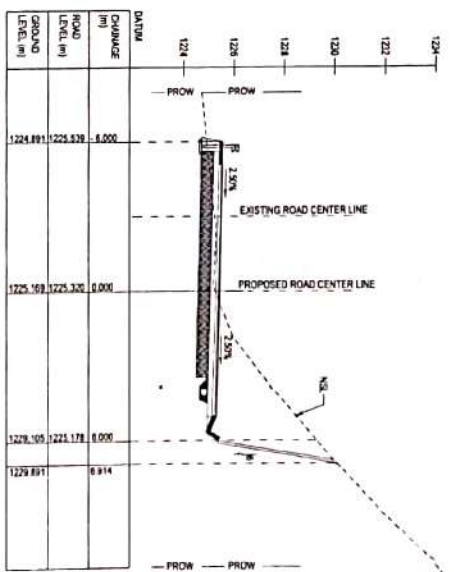
440+075



439+950



439+975



440+000

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD

TO 3.2 M WITH PAVED SHOULDERS FROM KM

439.000 TO KM 440.000 OF CHANNO TO PANN

EXCLUDING KM 437.825 TO KM 437.775, KM 438.800 TO

KM 439.475 AND KM 444.425 TO KM 444.425 OF NH-47

UNDER CHANDHAN PARIPOONA ON EPC BASIS IN THE

STATE OF UTTARAKHAND (PG-III)

REV

DATE

DESCRIPTION

SCALE

1:2000 (H&V)

1:500 (PLAN)

REVISION

R-0

OCT 2018

TITLE

PROPOSE CROSS SECTION

AT INTERVAL OF 25.00M

439+950 TO 440+075

DESIGNED BY

SK

APPROVED BY

DK

DRG NO

CP/ROAD/PP/104

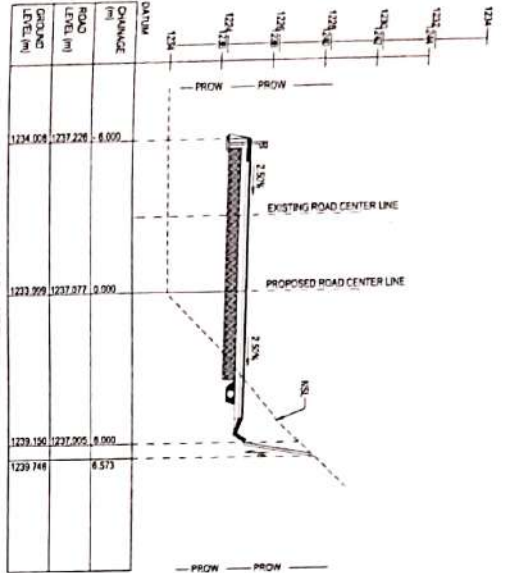
REVISION

R-0

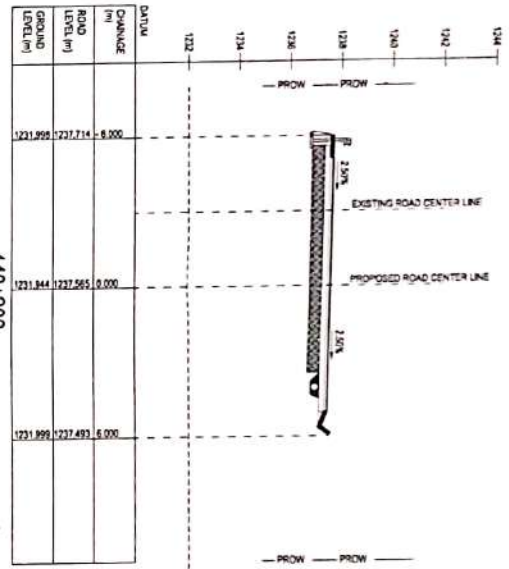
OCT 2018

MANA VILLAGE

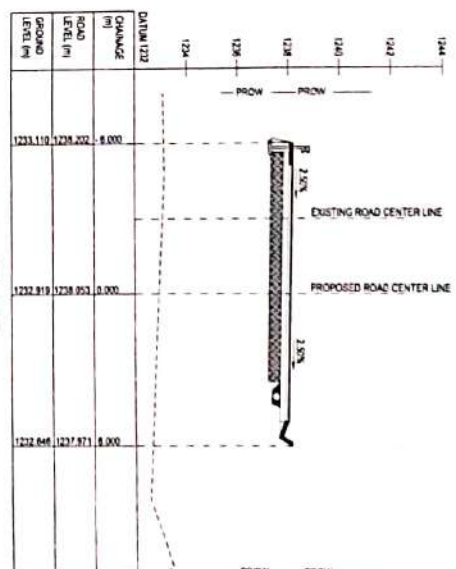
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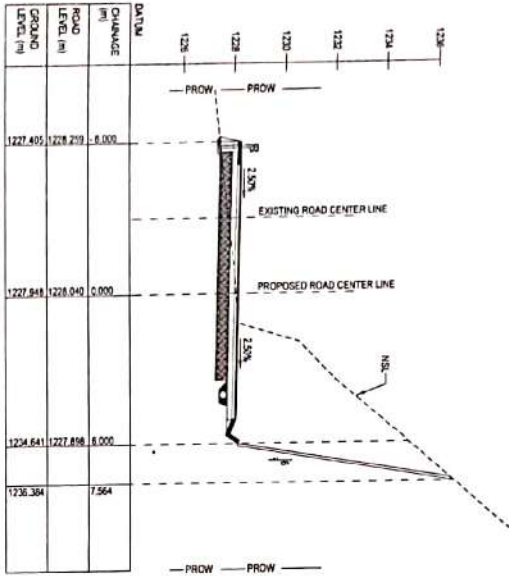
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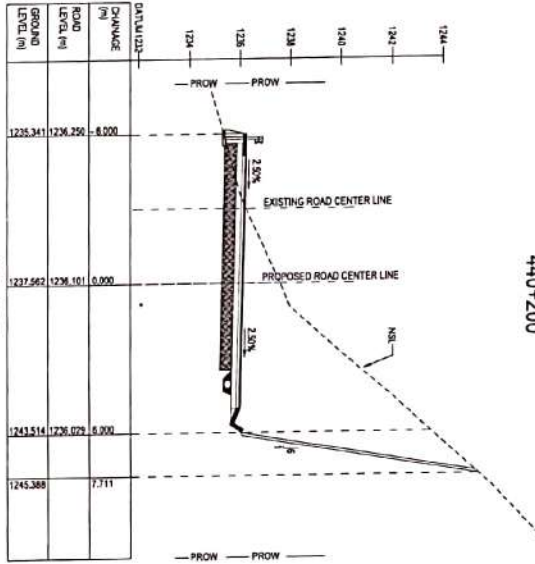
440+200



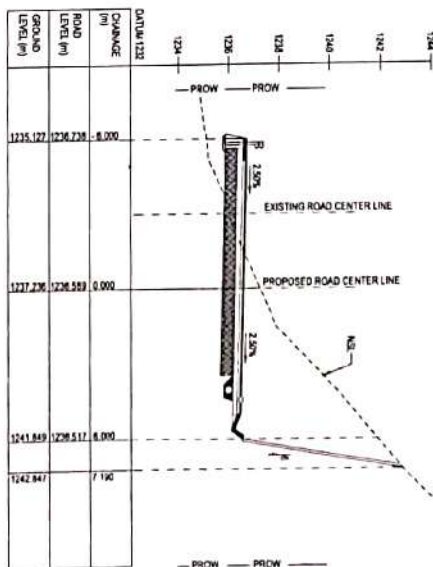
440+225



440+100



440+125



440+150

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT: CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLI TO PAUNI (EXCLUDING KM 437.825 TO KM 437.775, KM 458.980 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHAUDHARI PARVATYANA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKG-II)

DRAWN BY AS

TITLE PROPOSE CROSS SECTION AT INTERVAL OF 25.00M 440+100 TO 440+225

DESIGNED BY SK

DWG NO CPROAD/PI/105

APPROVED BY DK

REVISION R-0

SCALE 1:2000 (HORN)

OCT 2016

REV DATE DESCRIPTION

1:200 (VER)

1:200 (VER)

1:200 (VER)

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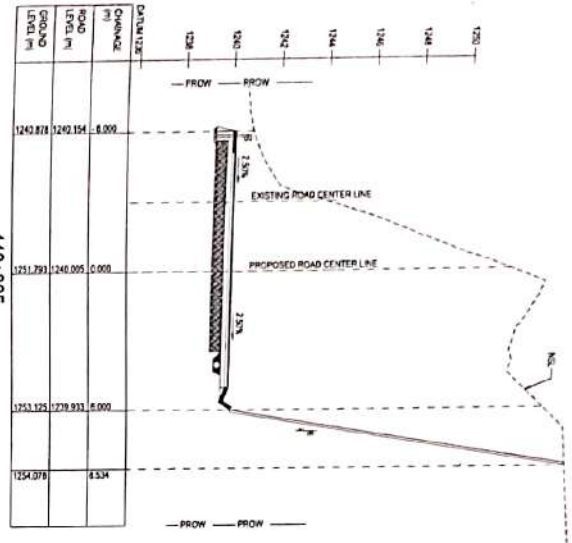
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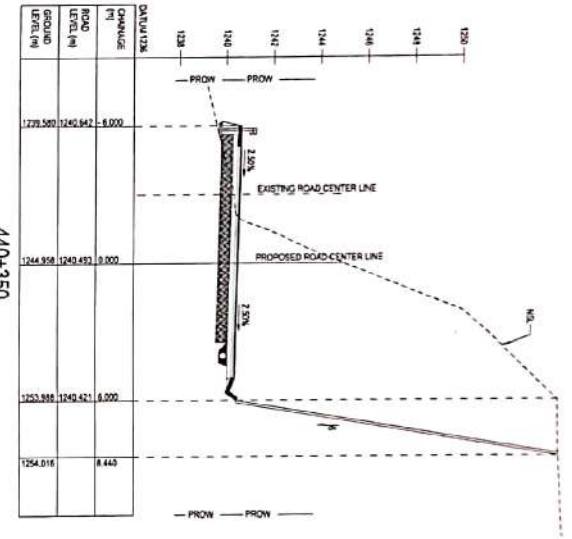
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→ RUDRAPRAYAG

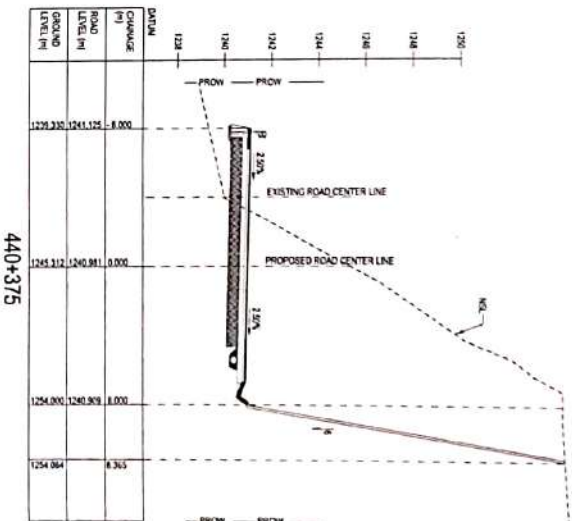
MANA VILLAGE →



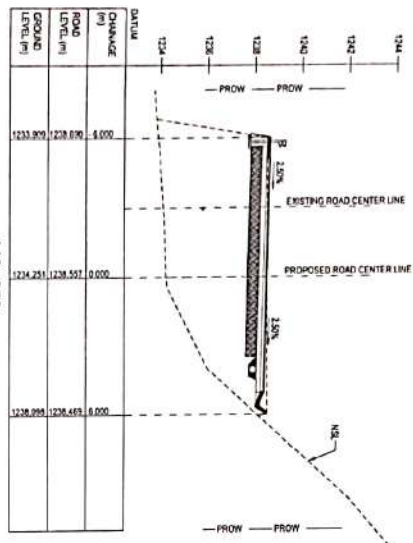
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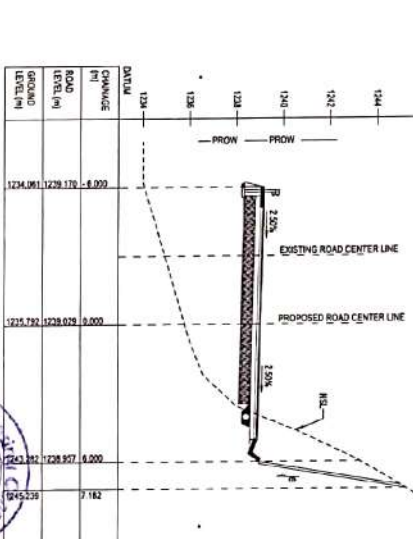
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440+375

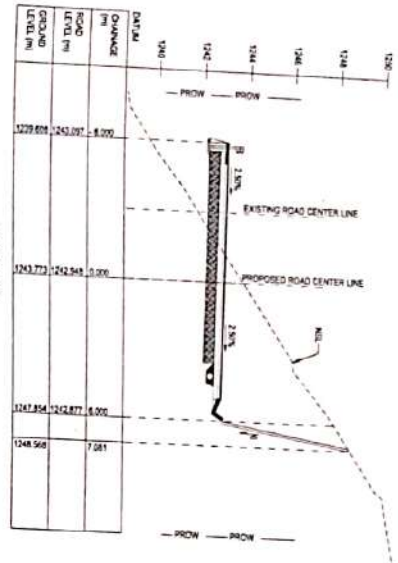


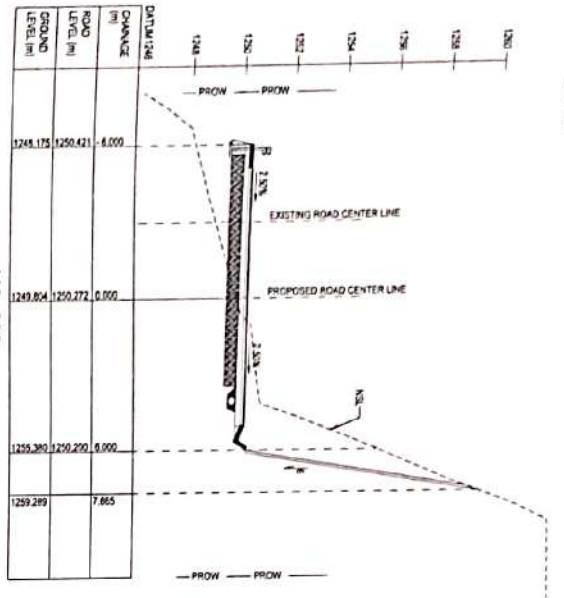
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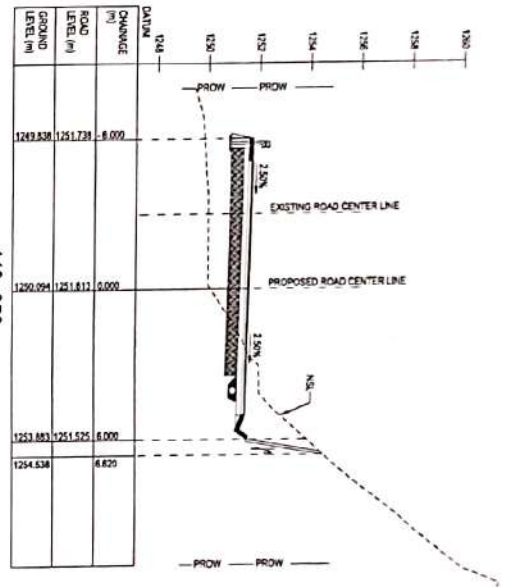
←RUDRAPRAYAG

MANA VILLAGE →

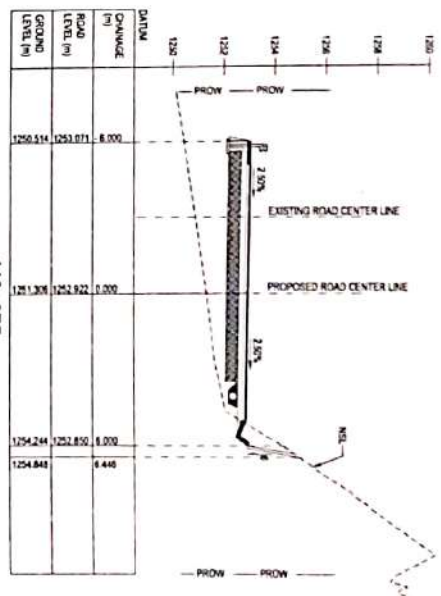




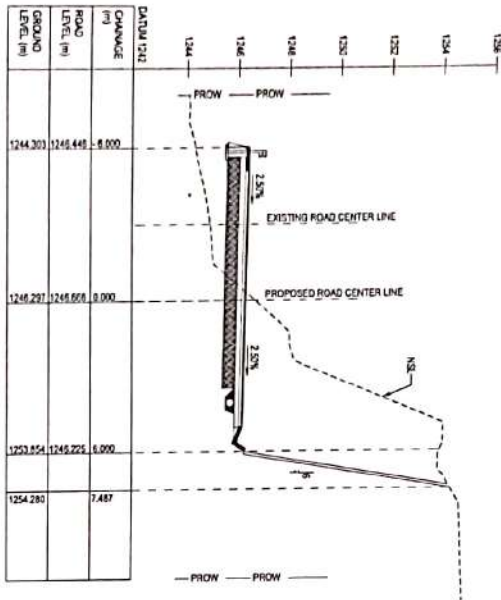
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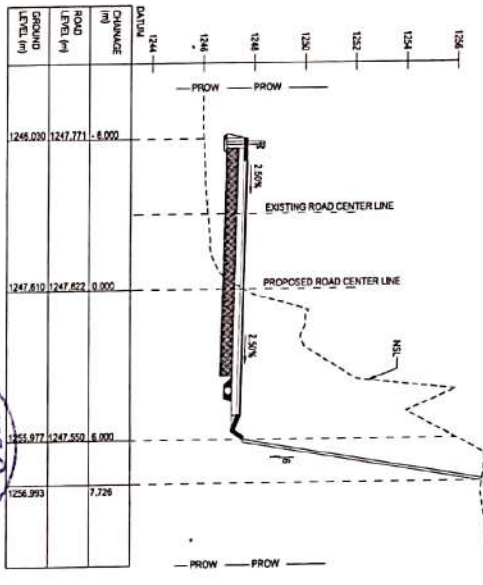
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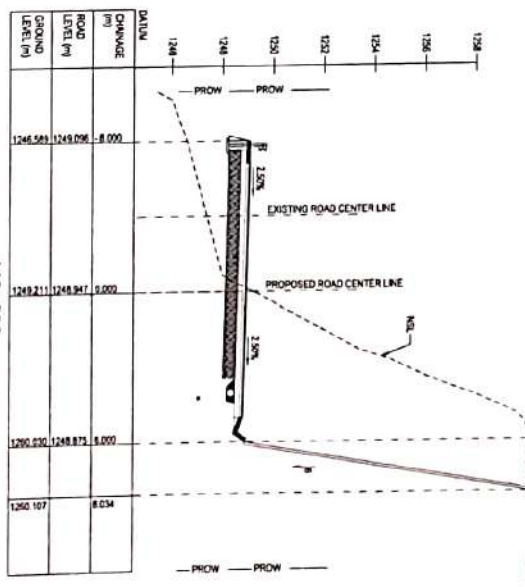
440+675



440+550



440+575



440+600

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

DRAWN BY

TITLE



CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLI TO PANTN (EXCLUDING KM 437.625 TO KM 437.775, KM 458.800 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHARDHAM PARIVAHAN ON EPC BASIS IN THE STATE OF UTTARAKHAND (PG-III)

REV	DATE	DESCRIPTION

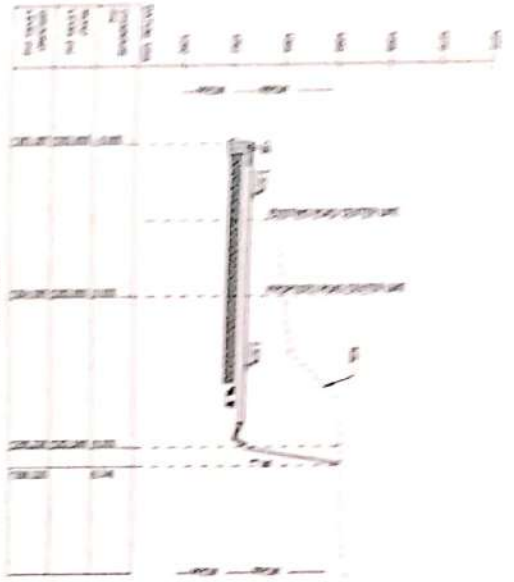
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APPROVED BY	DK
SCALE	1:200 (HCB)
	1:200 (VER)

DRG NO	CPROAD/PP/108
REVISION	R.O

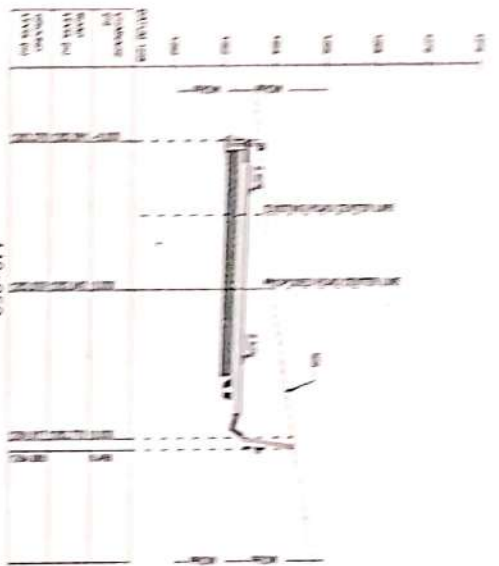
OCT 2018



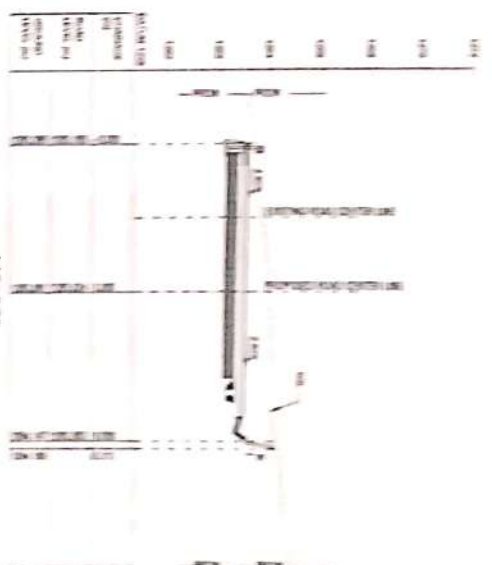
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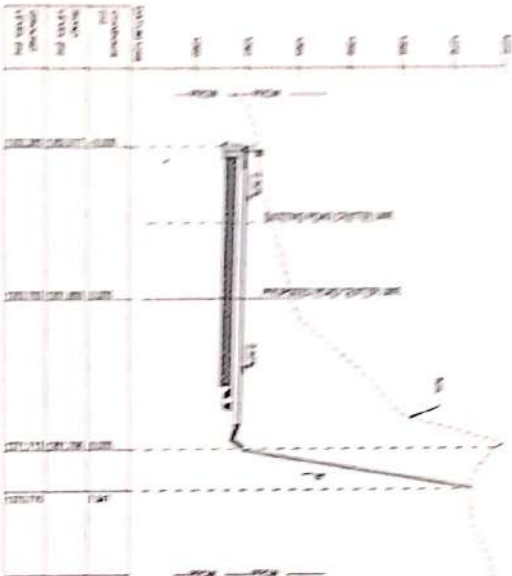
440+925



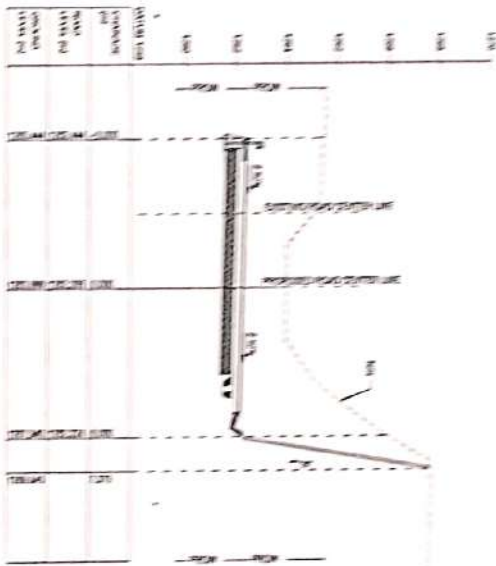
440+950



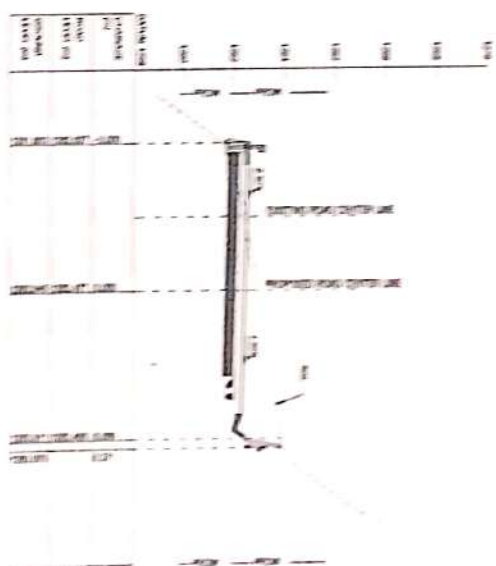
440+975



440+850



440+875



440+900

CHARTER ENGINEERING



Charter Engineering & Infrastructure
Development Corporation Ltd. (Private)

CHARTER CONSULTANT



Charter Consultant
Private Limited

CHARTER CONTRACTOR



Charter Contractor
Private Limited

CHARTER CONSULTANT



Charter Consultant
Private Limited

CHARTER CONTRACTOR



Charter Contractor
Private Limited

CHARTER CONSULTANT



Charter Consultant
Private Limited

CHARTER CONTRACTOR



Charter Contractor
Private Limited

CHARTER CONSULTANT

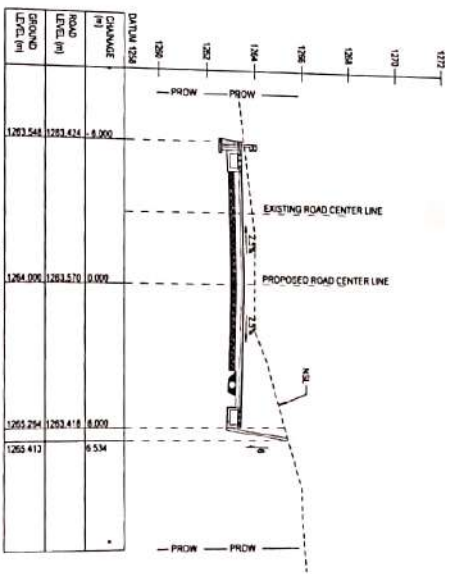
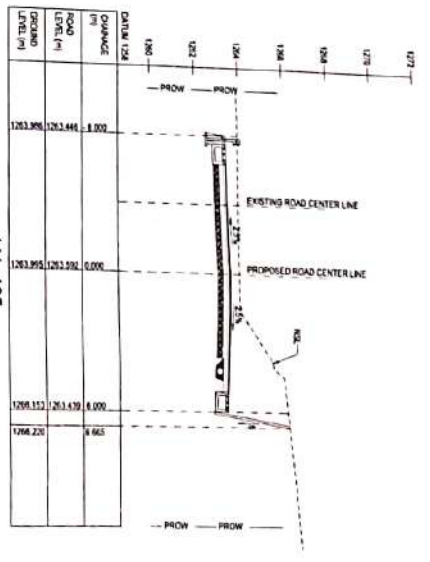


Charter Consultant
Private Limited

CHARTER CONTRACTOR



Charter Contractor
Private Limited



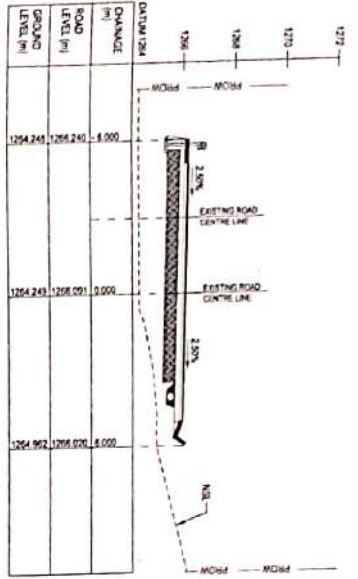
441+050



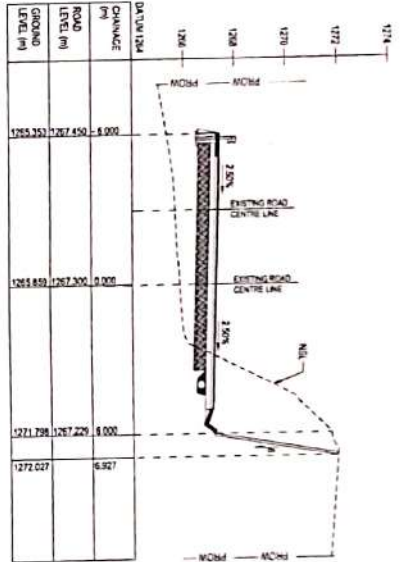
TITLE	PROPOSE CROSS SECTION

AI INTERVAL OF 25.00M	
441+150 TO 441+275	
DRG. NO. CPROAD/PP/112	
REVISION R-0	OCT 2018

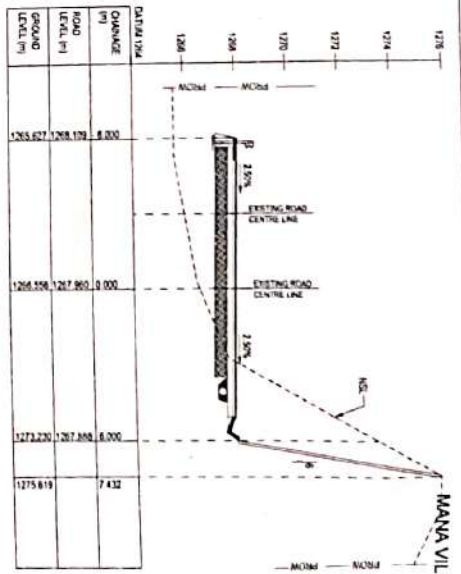
Scanned with OKEN Scanner



441+525

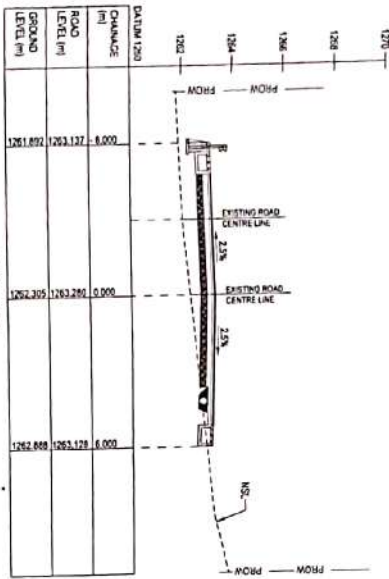


441+550

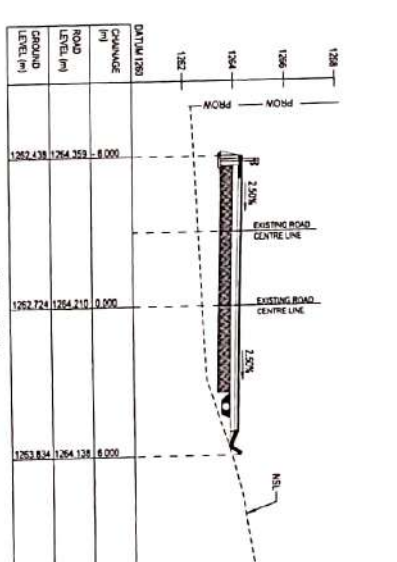


441+575

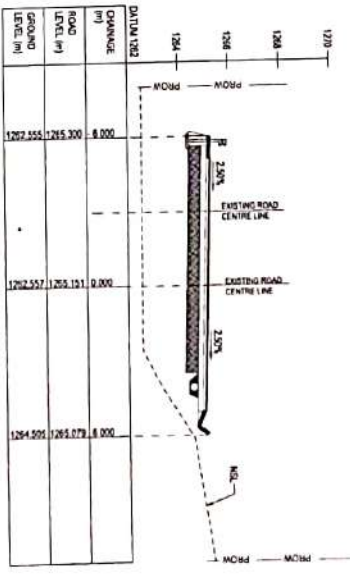
→ MANA VILLAGE



441+450



441+475



441+500

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

1:200 (HORI)

1:200 (VER)

REVISION

R-0

DRAM BY

AS

DESIGNED BY

SK

APPROVED BY

DK

DRG NO

CP/ROAD/PP/114

TITLE

PROPOSE CROSS SECTION

AT INTERVAL OF 25.00m

441+450 TO 441+575

OCT 2018

National Highways & Infrastructure Development Corporation Ltd. (NHDC)



MANOMAY ENGINEERS PVT. LTD. MEPL

DESIGNER MGS

PROOF CONSULTANT

KOC CONSULTANTS PVT. LTD.

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANOLI TO PANI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.300 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHANDAN PARYAJAN ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKG-III)

REV

DATE

DESCRIPTION

SCALE

1:200 (HORI)

1:200 (VER)

REVISION

R-0

DRAM BY

AS

DESIGNED BY

SK

APPROVED BY

DK

DRG NO

CP/ROAD/PP/114

TITLE

PROPOSE CROSS SECTION

AT INTERVAL OF 25.00m

441+450 TO 441+575

OCT 2018





NO

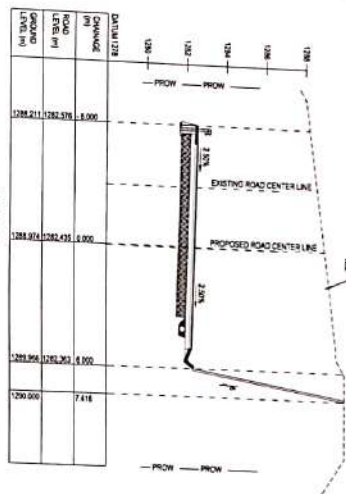
5 OCT 2018

RUDRAPRAYAG

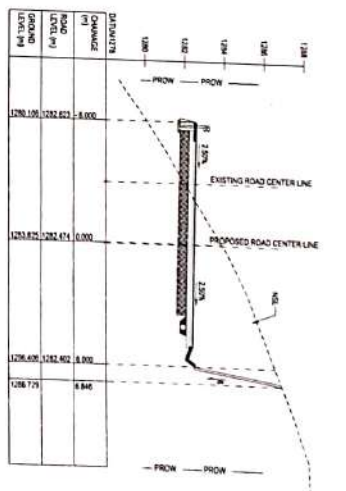
MANA VILLAGE



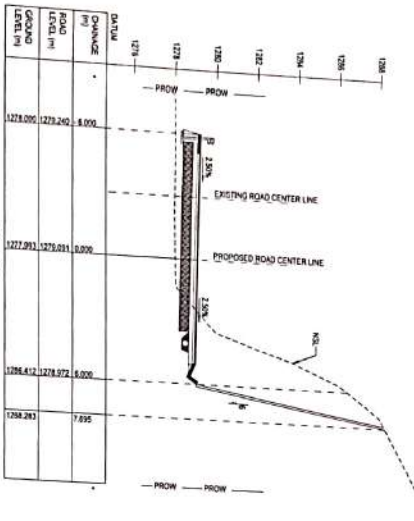
441+825



441+850

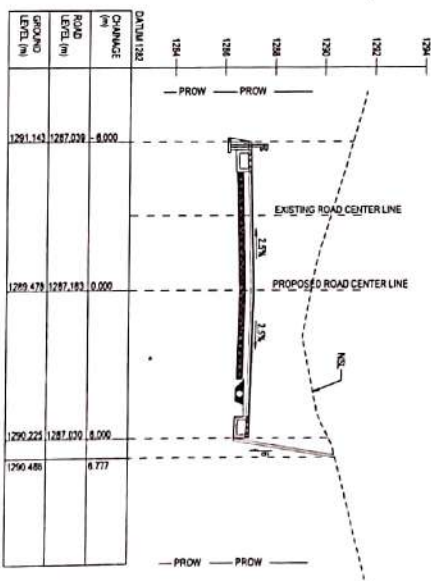
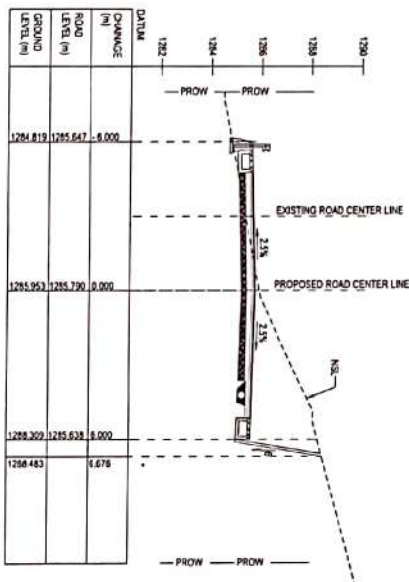
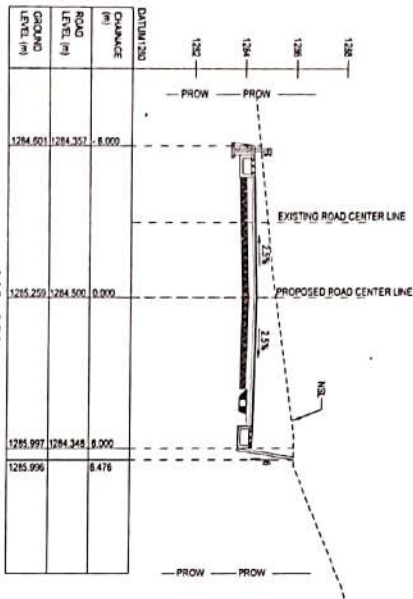
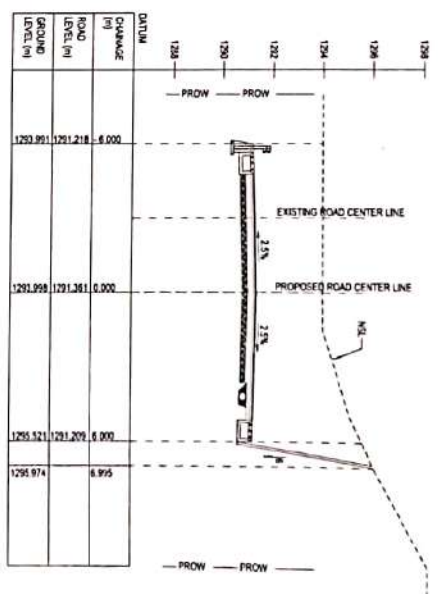
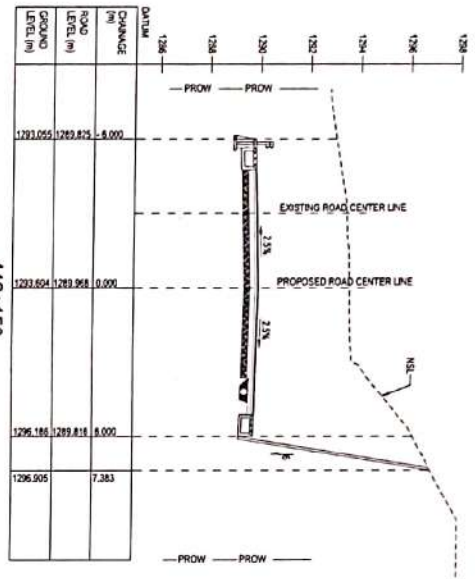
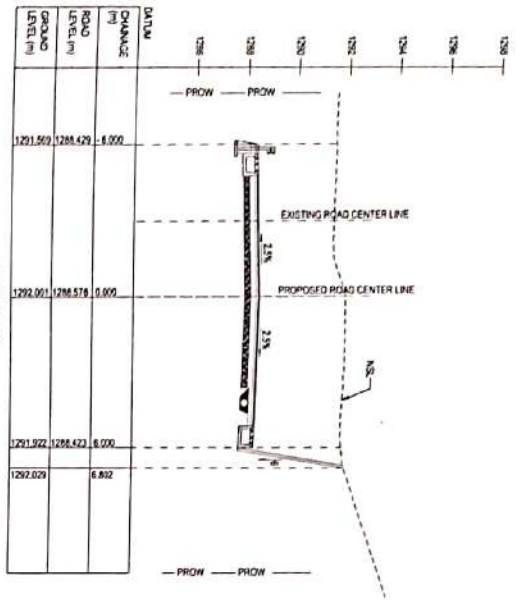


441+875





OCT 2011



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

DRAWN BY

TITLE

DESIGNED BY

APPROVED BY

SCALE

REV

DATE

DESCRIPTION

SCALE

1:200 (H&V)

1:200 (PLAN)

OCT 2018

PROPOSE CROSS SECTION

AT INTERVAL OF 25.00M

442+050 TO 442+175

CP/ROAD/PP/115

REVISION R-0

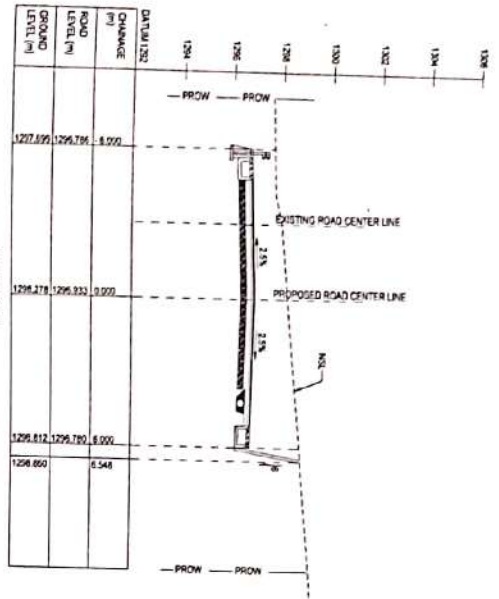
NOV 2018

NOV 2018

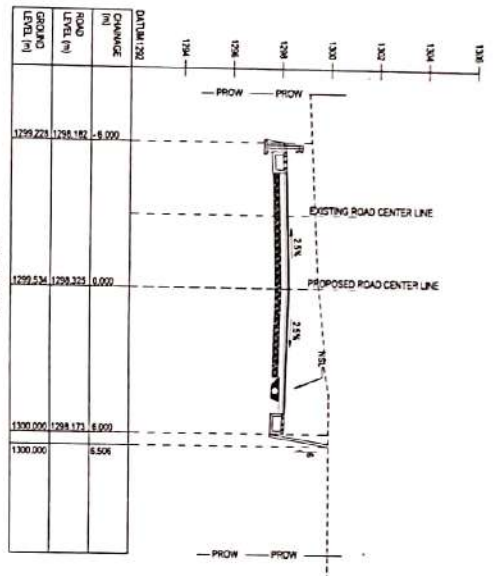
NOV 2018

NOV 2018

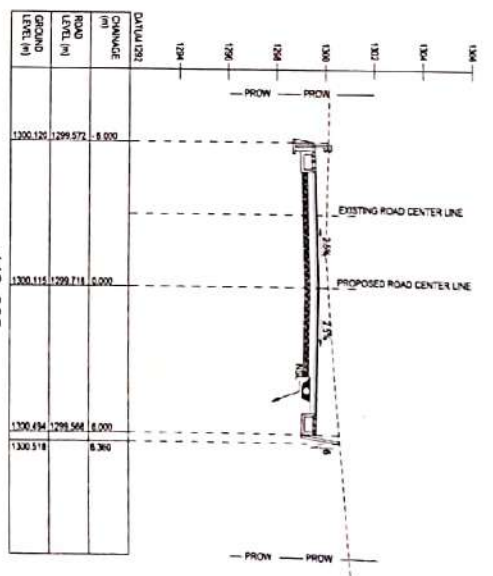
NOV 2018



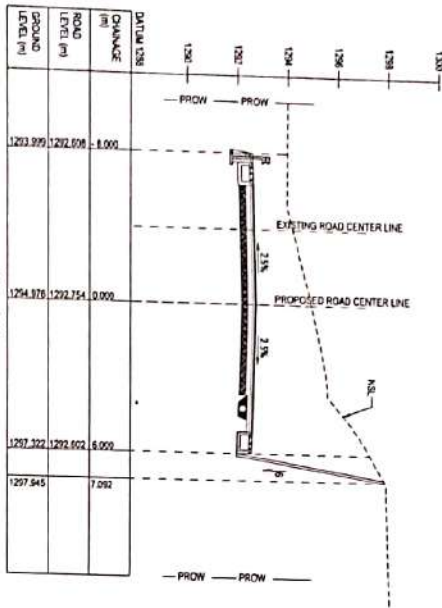
442+275



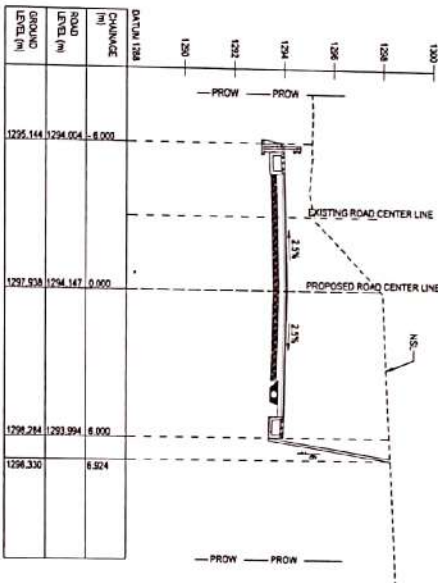
442+300



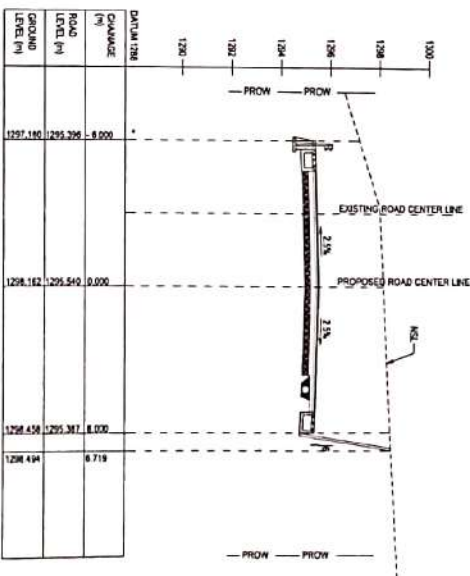
442+325



442+200



442+225



442+250

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

1:200 (VER)

REVISION

R-0

OCT 2018

MANA VILLAGE

PROPOSE CROSS SECTION

AT INTERVAL OF 25.00M

442+200 TO 442+325

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 458.000 OF CHANDOL TO PAUNI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.890 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-67 UNDER CHANDOL PANCHAYAT ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKG-II)

DRAWN BY

AS

DESIGNED BY

SK

APPROVED BY

DK

DRG NO

CP/ROAD/PP/119

MANA VILLAGE

PROPOSE CROSS SECTION

AT INTERVAL OF 25.00M

442+200 TO 442+325

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 458.000 OF CHANDOL TO PAUNI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.890 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-67 UNDER CHANDOL PANCHAYAT ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKG-II)

DRAWN BY

AS

DESIGNED BY

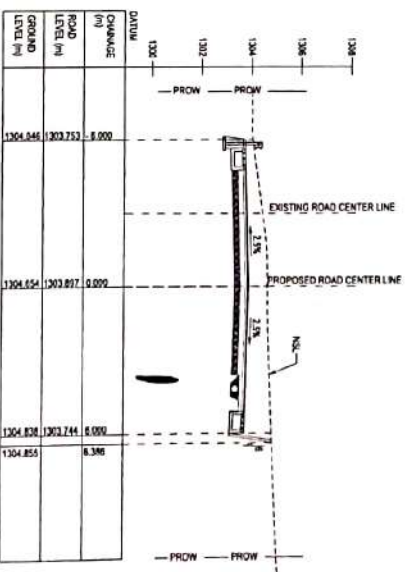
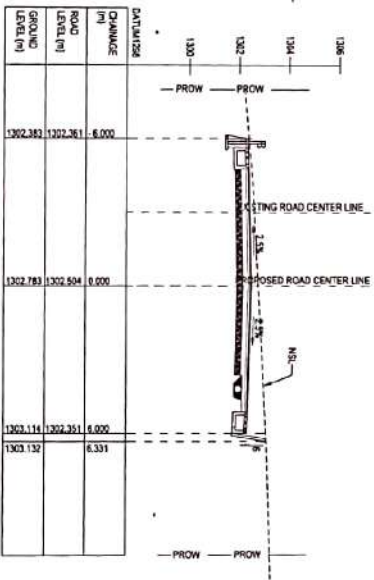
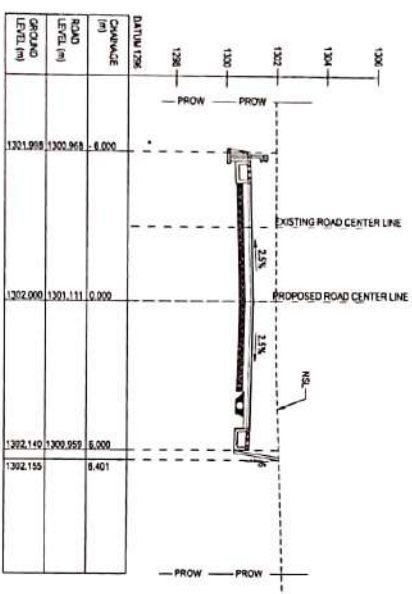
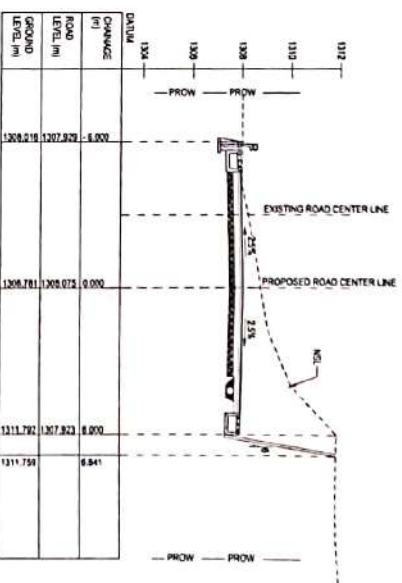
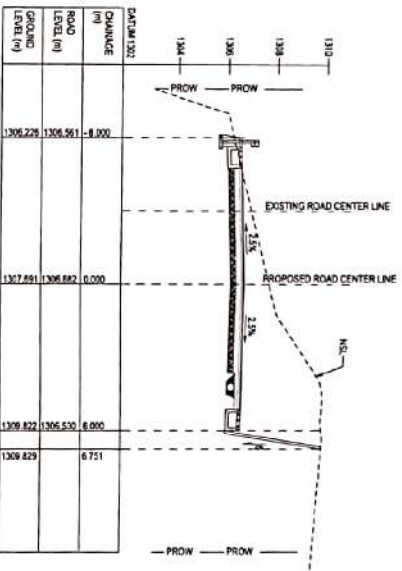
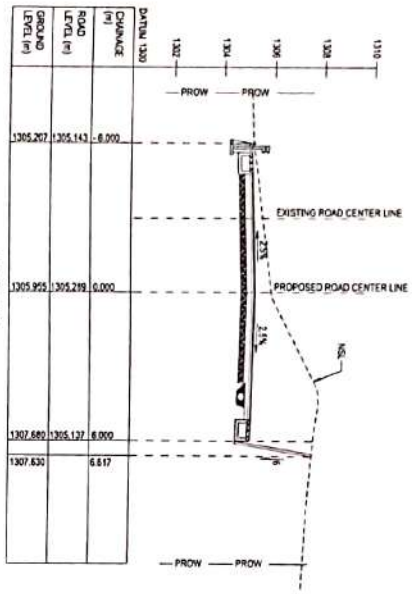
SK

APPROVED BY

DK

DRG NO

CP/ROAD/PP/119



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

REVISION

QCT 2018

National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

MANOJAV ENGINEERS PVT. LTD. MEPL

NKG INFRASTRUCTURE LTD

KOCCEB CONSULTANTS PVT. LTD.

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH 2 WAY DIVIDERS FROM KM 439.000 TO KM 446.000 OF CHANOLI TO PANA (EXCLUDING KM 437.525 TO KM 437.775, KM 438.900 TO KM 439.475 AND KM 444.425 TO KM 444.525) OF NH-47 UNDER CHANDIMAN PARIYAJAN ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKC-II)

DRAWN BY AS

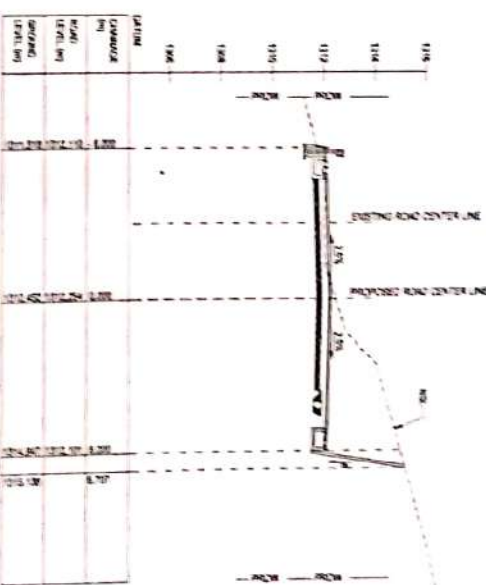
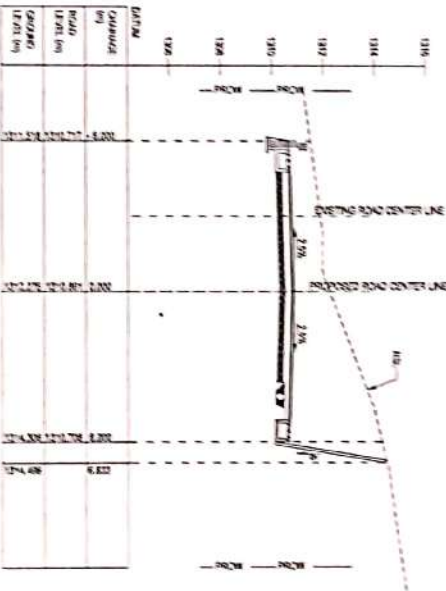
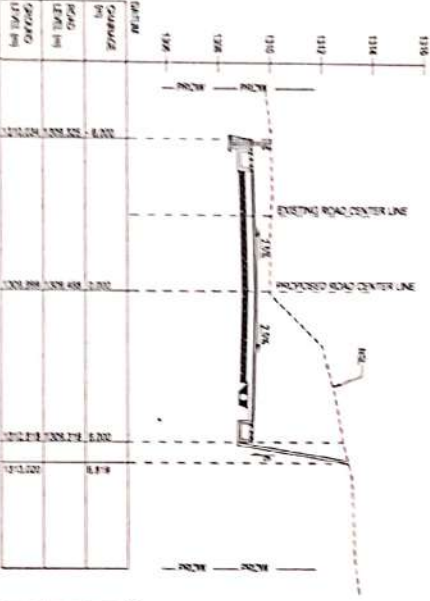
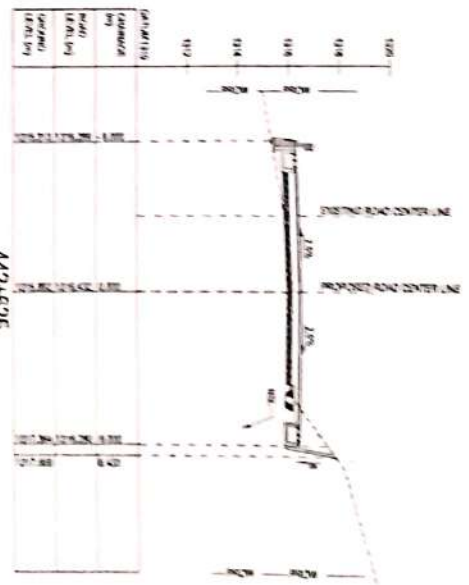
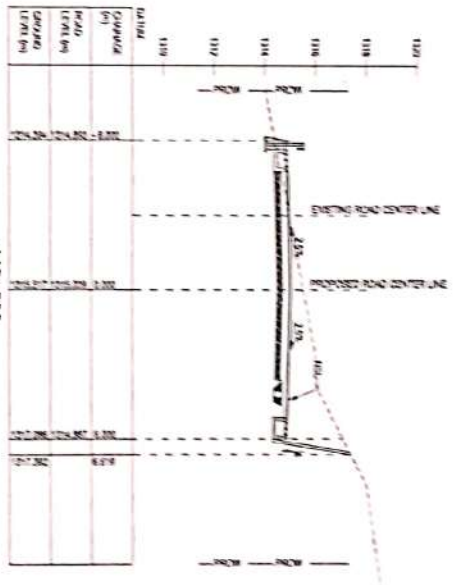
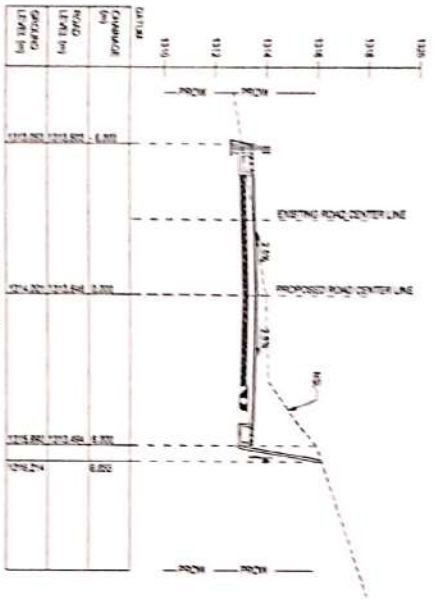
DESIGNED BY SK

APPROVED BY DK

DRG NO. C/R/ROAD/PP/120

TITLE: PROPOSE CROSS SECTION AT INTERVAL OF 25.00m 442+350 TO 442+475

QCT 2018



OWNER ENGINEERS:

SAFETY CONSULTANT

TRC CONTRACTORS

PROJ. CONSULTANT

PROJ. CT

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDER FROM KM 439.800 TO KM 448.000 OF CHANOLI TO PAHLE (EXCLUDING KM 437.025 TO KM 437.775, KM 438.800 TO KM 439.475 AND KM 444.425 TO KM 444.525) OF NH-67 UNDER CHANOLI RAMPOLINA ON EPC BASIS IN THE STATE OF UTTARANCHAL (P.W.-III)

REV

DATE

DESCRIPTION

SCALE

APPROVED BY

DATE

UNO NO

PROVISION NO

TITLE

MANA CROSS SECTION

AT NH-67 KM 439.800

442+500 TO 442+625

DATE

OCT 2018

National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)



MAHARAJA ENGINEERS

MAHARAJA ENGINEERS

MAHARAJA ENGINEERS

MAHARAJA ENGINEERS

MAHARAJA ENGINEERS

MAHARAJA ENGINEERS

MAHARAJA ENGINEERS

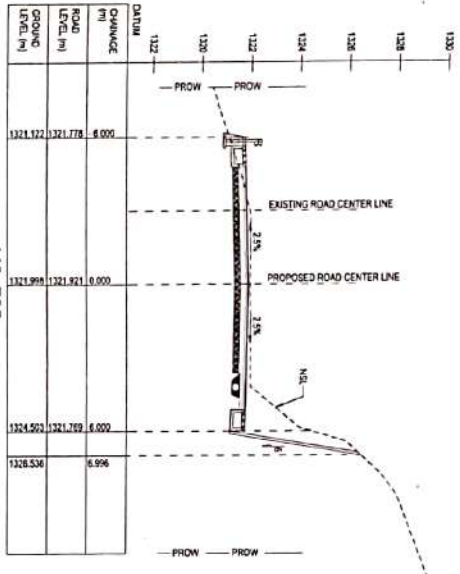
MAHARAJA ENGINEERS

MAHARAJA ENGINEERS

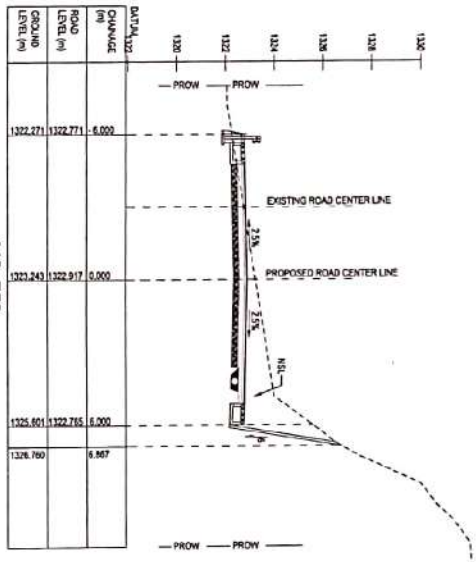
MAHARAJA ENGINEERS

MAHARAJA ENGINEERS

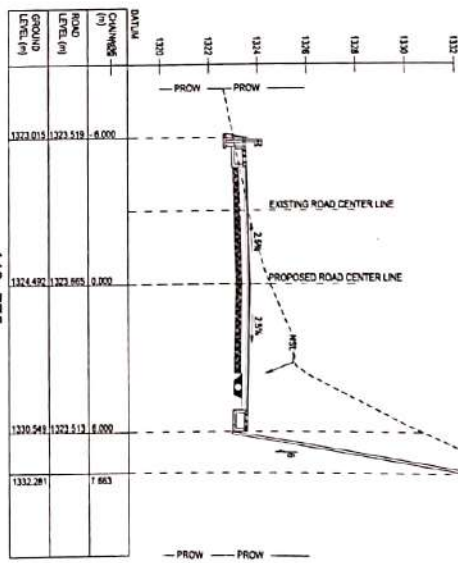
MAHARAJA ENGINEERS



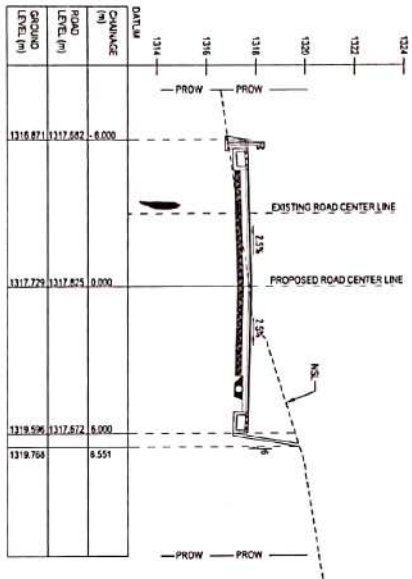
442+725



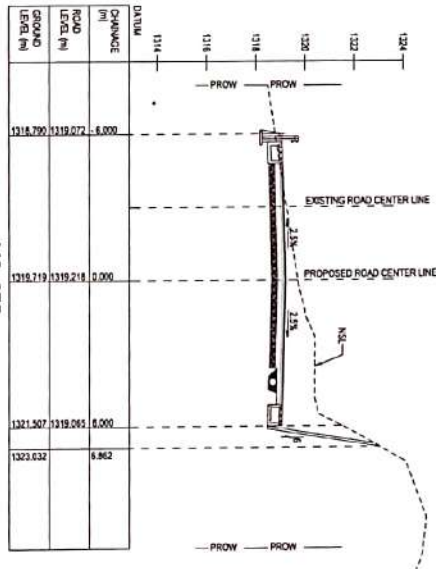
442+750



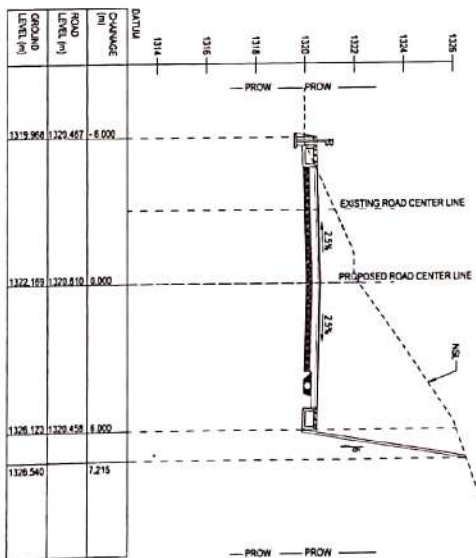
442+775



442+650



442+675



442+700

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANOLI TO PAUNI (EXCLUDING KM 437.825 TO KM 437.775, KM 458.800 TO KM 458.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHANDIGARH PATRIKHA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PH-08)

REVISION

SCALE

TITLE

PROPOSE CROSS SECTION AT INTERVAL OF 25.00M

442+650 TO 442+775

DATE

DESIGNER

APPROVED BY

SCALE

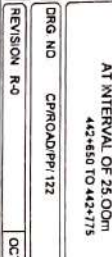
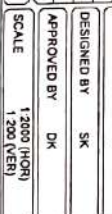
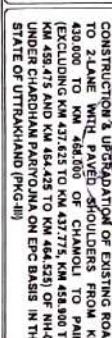
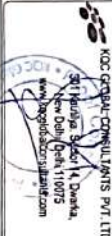
REVISION

DATE

DESCRIPTION

SCALE

REVISION

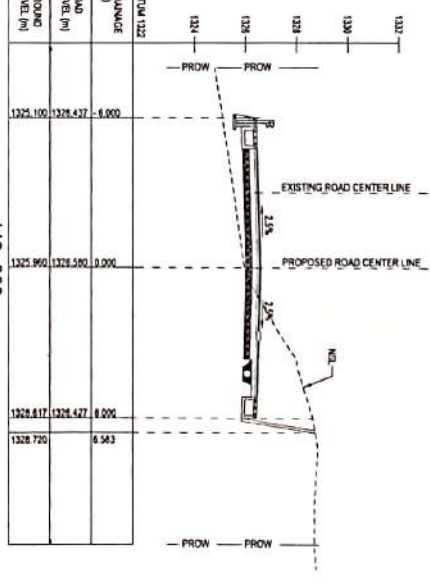
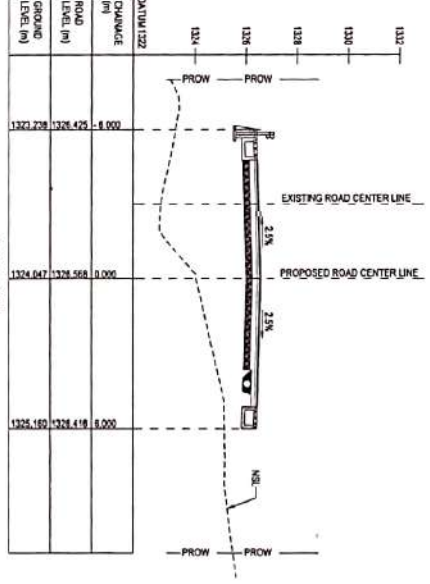
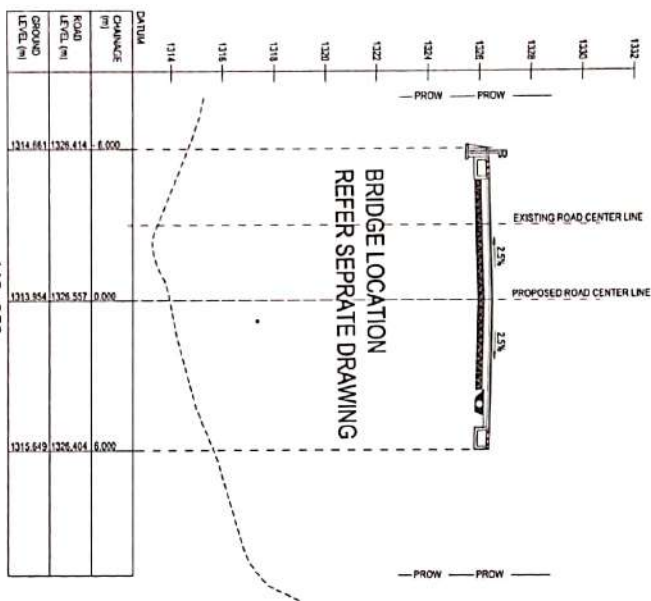
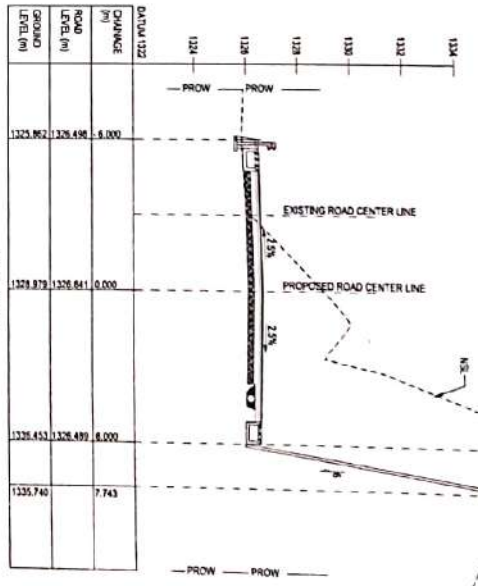
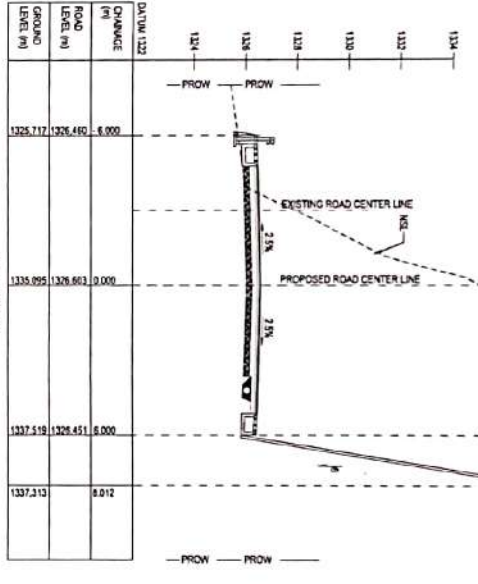
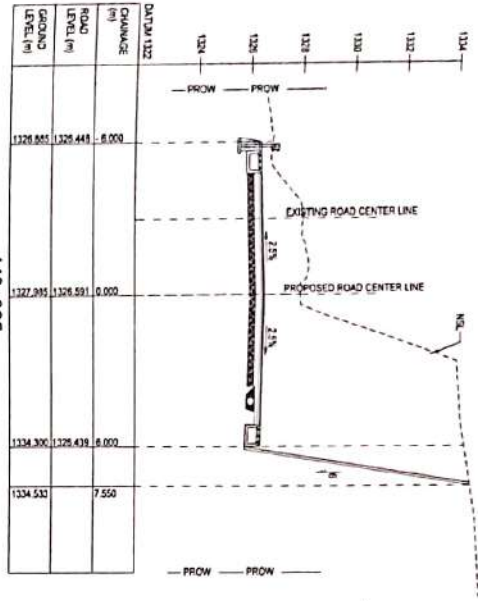




TITLE	PROPOSE CROSS SECTION

TITLE	PROPOSE CROSS SECTION AT INTERVAL OF 25 OOM 442+800 TO 442+925
DRG NO	CP/ROAD/PP/123
REVISION	R.0

**PROPOSE CROSS SECTION
AT INTERVAL OF 25.00M
442+800 TO 442+925**



BRIDGE LOCATION
REFER SEPRATE DRAWING

442+950

442+975

443+000

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT: CONSTRUCTION & UPGRADING OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 43+000 TO KM 48+000 OF CHANOLI TO PAUNI (EXCLUDING KM 43+525 TO KM 43+775, KM 43+800 TO KM 43+875 AND KM 44+425 TO KM 44+525) OF NH-47 UNDER CHARGIAN PARIYAJAN ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-III)

DRAWN BY AS

TITLE PROPOSE CROSS SECTION AT INTERVAL OF 25.00M 442+950 TO 443+075

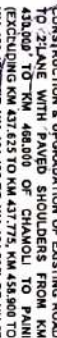
DESIGNED BY SK

APPROVED BY DK

DRG NO CP/ROAD/PP/124

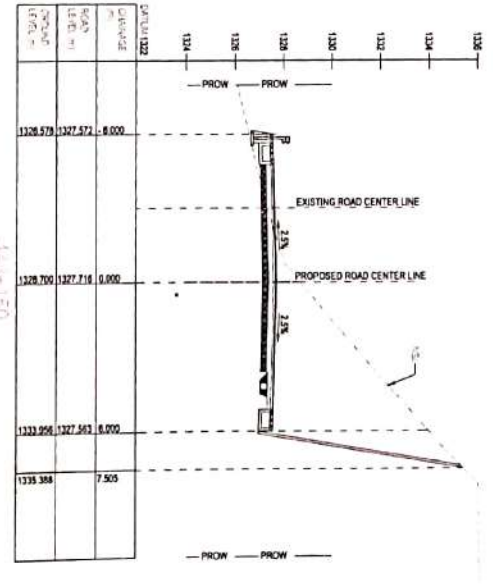
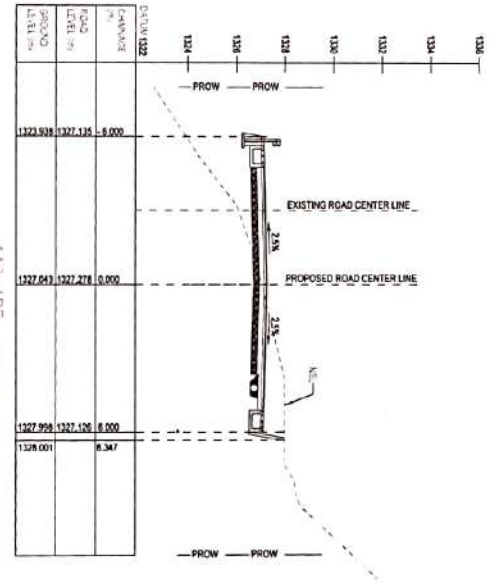
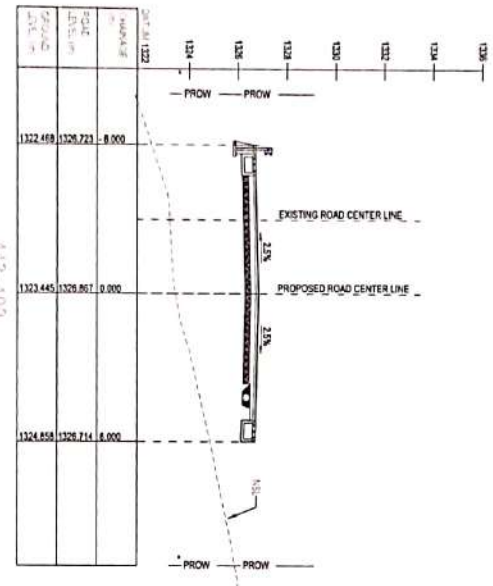
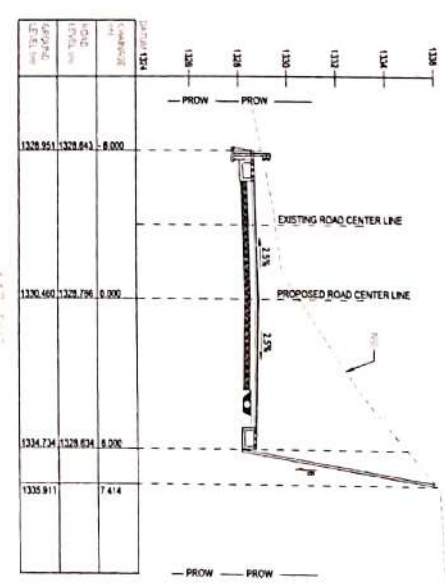
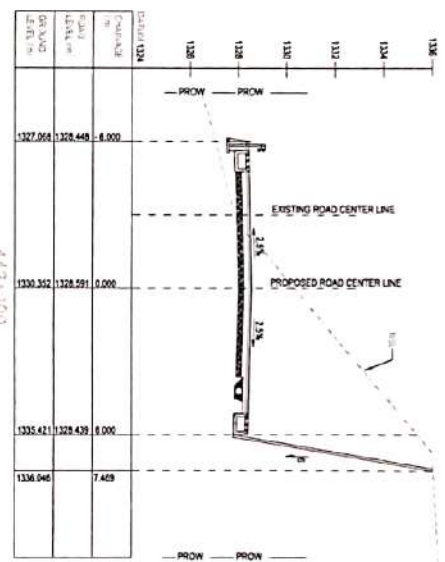
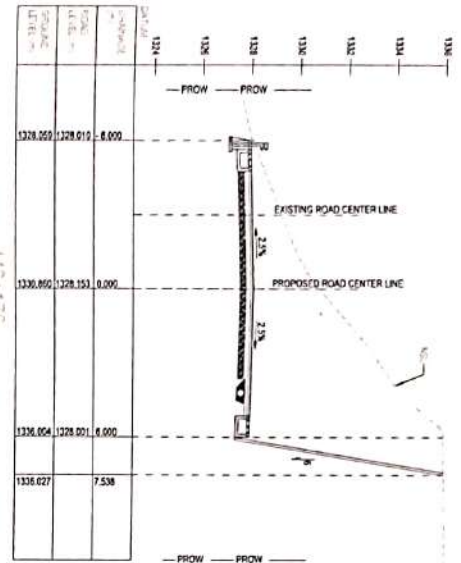
REVISION R-0

OCT 2018



→ RUDRAPRAYAG

← MANA VILLAGE



OWNER ENGINEERING



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



MAMOMAY ENGINEERS PVT. LTD. MEPL

EPC CONTRACTOR



NKG INFRASTRUCTURE LTD

PROJECT CONSULTANT



KCC CONSULTANTS PVT. LTD.
37, Keshavnagar, Sector 14, Dwarka, New Delhi 110015
www.kccconsultants.com

PROJECT DESCRIPTION

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDER FROM KM 43+800 TO KM 44+800 OF CHANDRA TO PAINI ROAD, DISTRICT OF CHANDRA, STATE OF UTTARANCHAL ON EPC BASIS IN THE STATE OF UTTARANCHAL (PK-41)

REVISION

REV	DATE	DESCRIPTION

DESIGNED BY

SK

APPROVED BY

DK

SCALE

1:200 (HORIZONTAL)
1:200 (VERTICAL)

DWG NO

CPROAD/PI/125

REVISION R-0

TITLE

PROPOSE CROSS SECTION AT INTERVAL OF 25.00m

443+100 TO 443+225

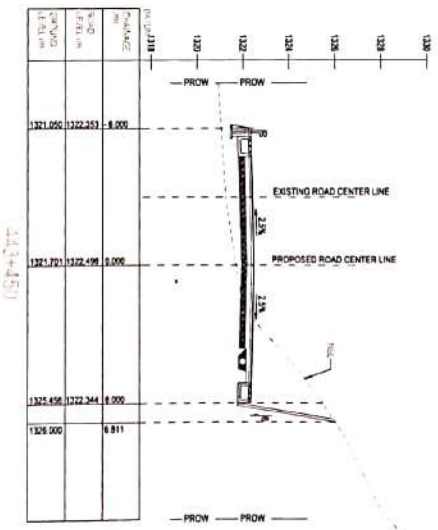
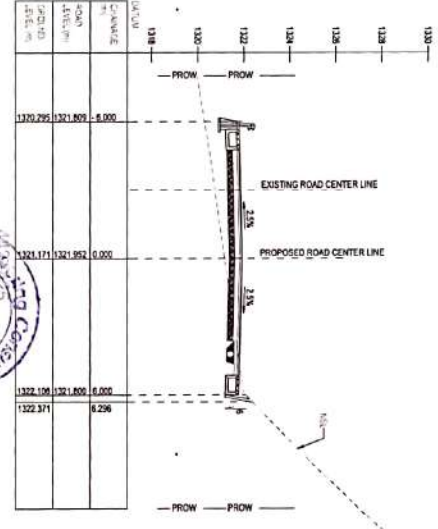
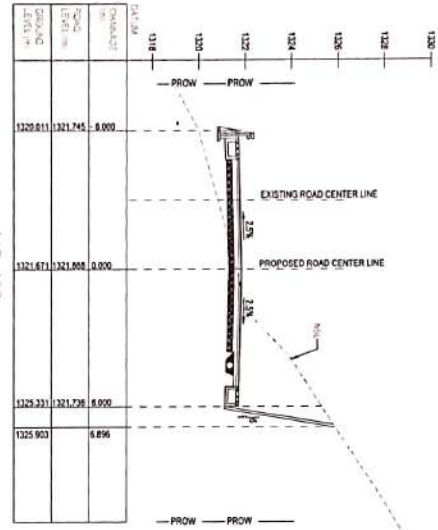
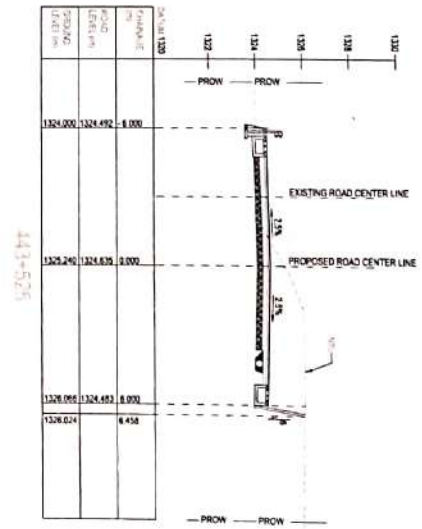
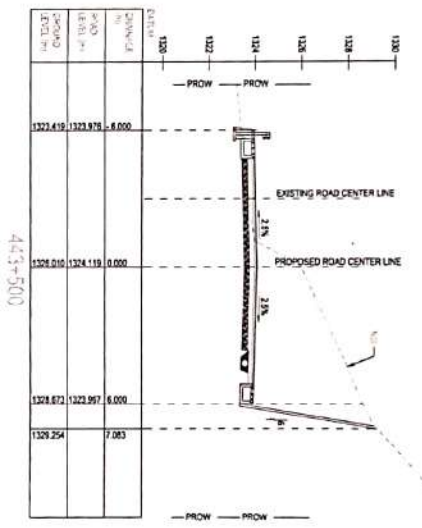
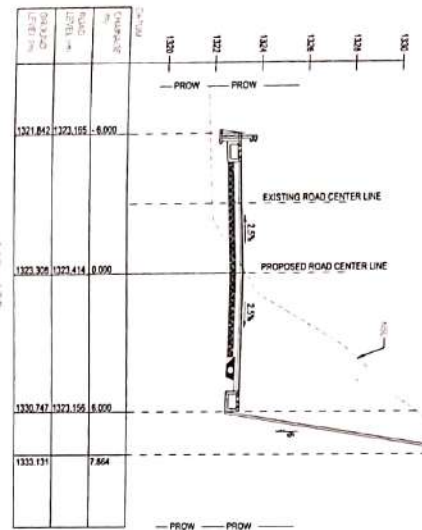
DRAWN BY

AS

OCT 2018

→ RUDRAPRAYAG

MANA VILLAGE →



OWNER ENGINEERING :



National Highway & Infrastructure Development Corporation Ltd. (NHIDCL)

SAFETY CONSULTANT :



MAMOMAY ENGINEERS PVT. LTD. MEPL

EPC CONTRACTOR :



NKG INFRASTRUCTURE LTD.

PROOF CONSULTANT :



KOC CONSULTANTS PVT. LTD.

PROJECT :

CONSTRUCTION & UPGRADATION OF EXISTING ROAD 430.00 TO KM 468.00 OF CHANDOL TO PAMN (EXCLUDING KM 437.523 TO KM 437.773, KM 438.500 TO KM 439.472 AND KM 444.425 TO KM 444.575) OF NH-47 UNDER CHANDOL PARITY ON EPC BASIS IN THE STATE OF UTTARANCHAL (PWC-III)

REV

DATE	DESCRIPTION

DRAWN BY

AS

TITLE : PROPOSE CROSS SECTION AT INTERVAL OF 25.00m 443+400 TO 443+525

DESIGNED BY

SK

APPROVED BY

DK

DRG NO. CP/ROAD/PP/127

REVISION R-0

SCALE

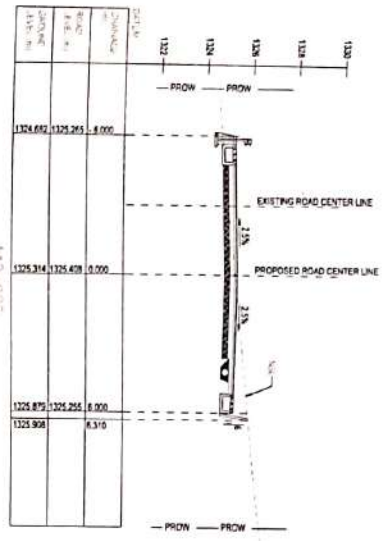
1:200 (HORN)

1:200 (VERT)

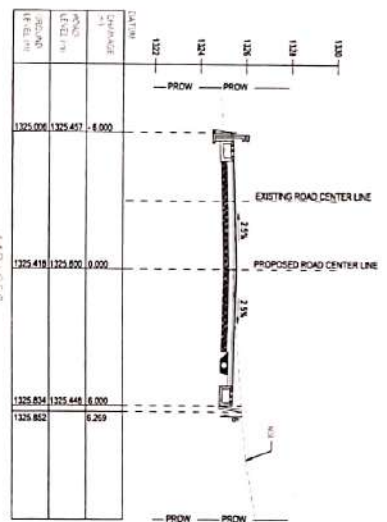
OCT 2018

← RUDRAPRAYAG

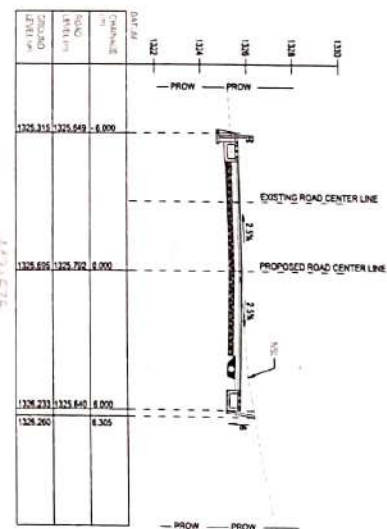
MANA VILLAGE →



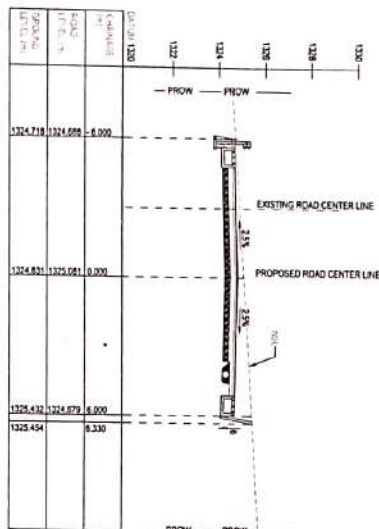
443+625



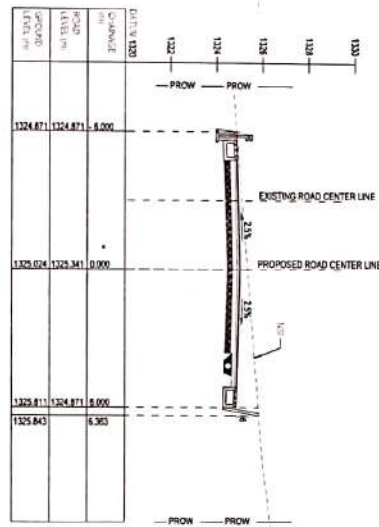
443+650



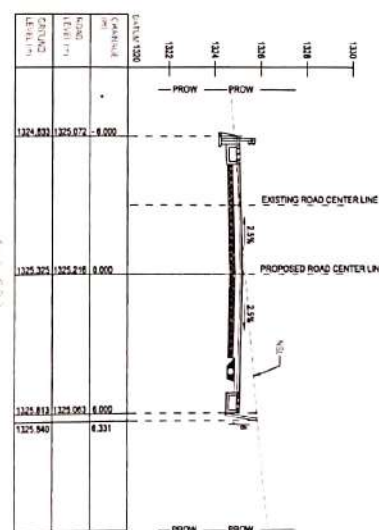
443+675



443+550



443+575



443+600

OWNER ENGINEERING



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



PVE Engineering Pvt Ltd

EPC CONTRACTOR



MNG Infrastructure Ltd

PROJECT CONSULTANT



KOC Road Consultants Pvt Ltd
307, 3rd Floor, Sector 14, Dwarka,
New Delhi, India - 110025
www.kocroadconsultants.com

PROJECT

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLI TO PAUNI (EXCLUDING KM 437.000 TO KM 437.775, KM 458.000 TO KM 458.475 AND KM 464.425 TO KM 464.529) OF NH-47 (EXISTING ROAD) ON EPC BASIS IN THE STATE OF UTTARANCHAL (PWC-III)

REV

REV	DATE	DESCRIPTION

DRAWN BY

AS

DESIGNED BY

SK

APPROVED BY

DK

DRG NO

CPROAD/P/123

SCALE

1:2000 (HCB)
1:200 (VER)

REVISION

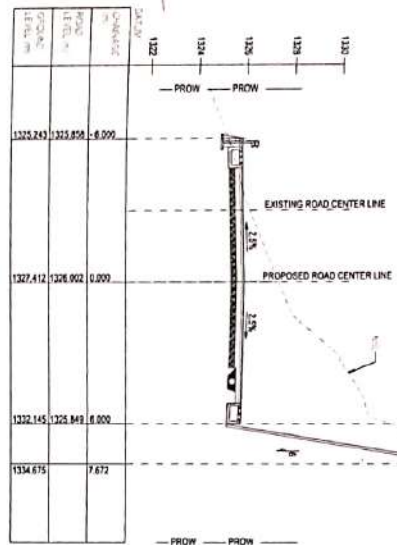
R-0

TITLE

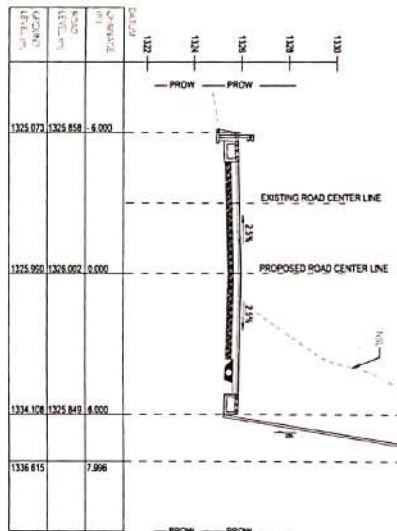
PROPOSE CROSS SECTION AT INTERVAL OF 25.00m
443+550 TO 443+675

OCT 2018

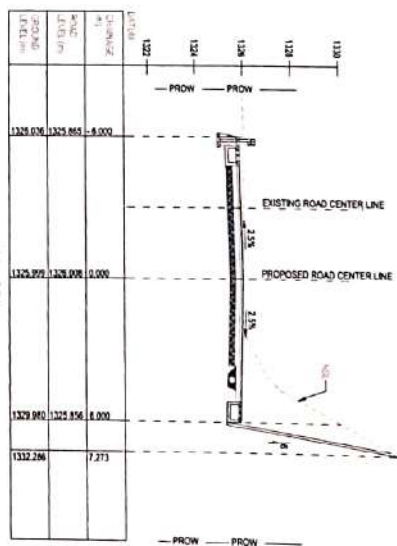
→ RUDRAPRAYAG



443+775

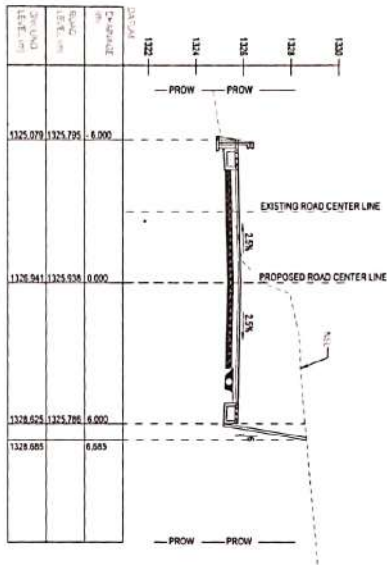


443+800

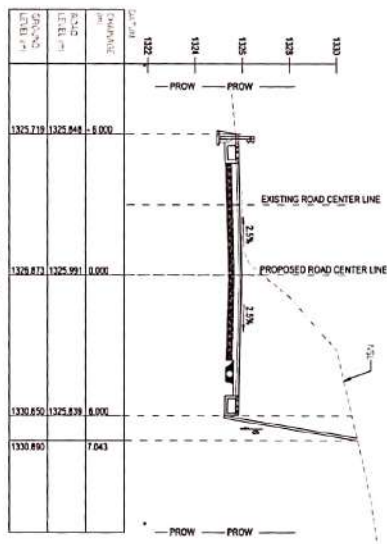


443+825

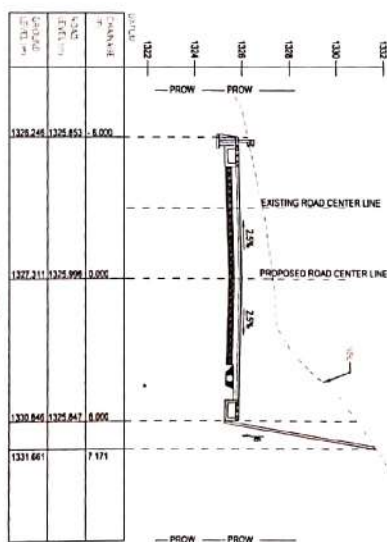
→ MANA VILLAGE



443-700



443+725



443+750

OWNER ENGINEERING



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



MME PVT. LTD. MECL

EPC CONTRACTOR



S. NKG INFRASTRUCTURE LTD

PROJECT CONSULTANT



KOC CONSULTING PVT. LTD.
301, 3rd Floor, Sector 1, DDA Market, New Delhi-110015
www.kocconsulting.com

PROJECT

CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE-NTL PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLI TO PAUNI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.800 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHADARIAN PARTITION ON EPC BASIS IN THE STATE OF UTTARANCHAL (PH-III)

REV

REV	DATE	DESCRIPTION

DRAWN BY

AS

DESIGNED BY

SK

APPROVED BY

DK

SCALE

1:200 (HORIZONTAL)

DRG NO

CPROAD/P/129

REVISION

R-0

TITLE

PROPOSE CROSS SECTION AT INTERVAL OF 25.00M 443+700 TO 443+825

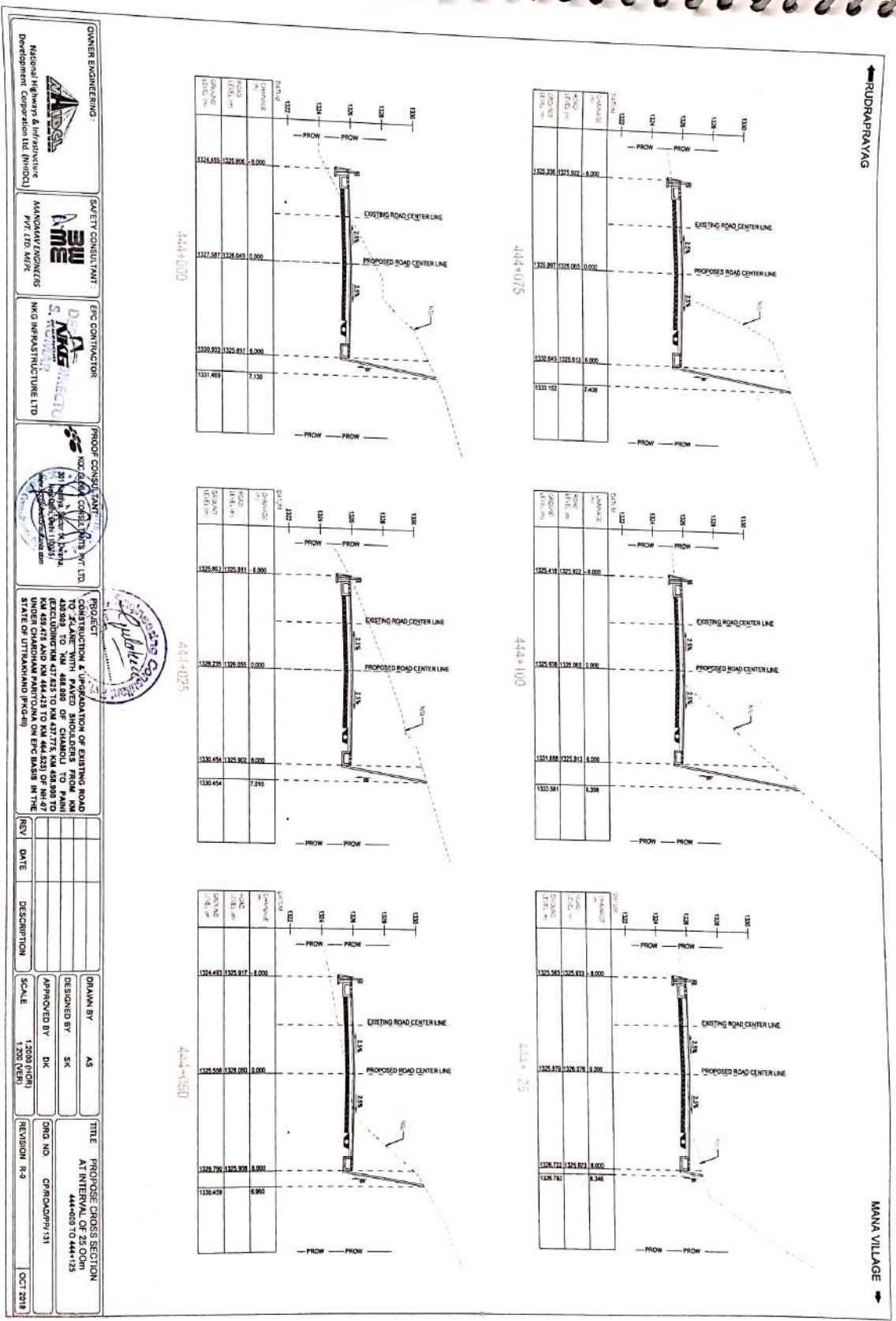
OCT 2018

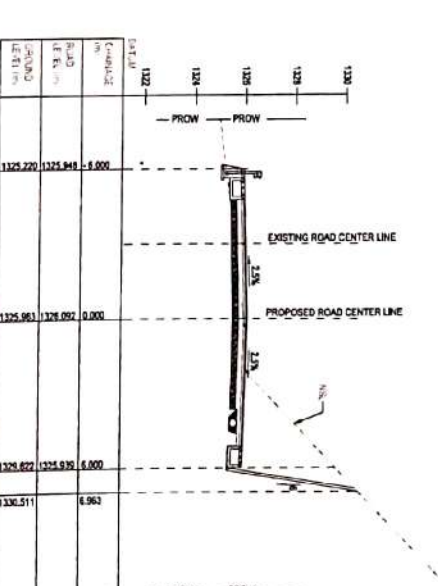
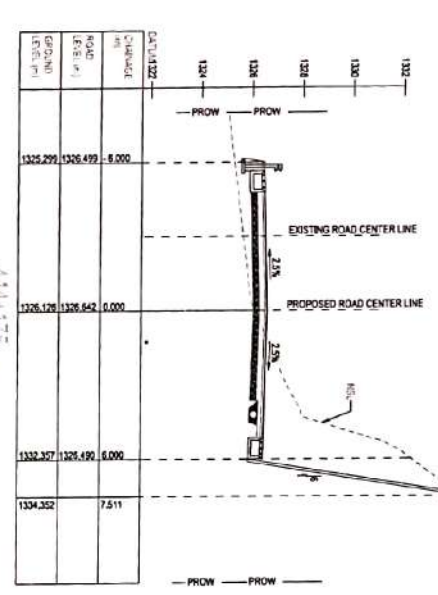
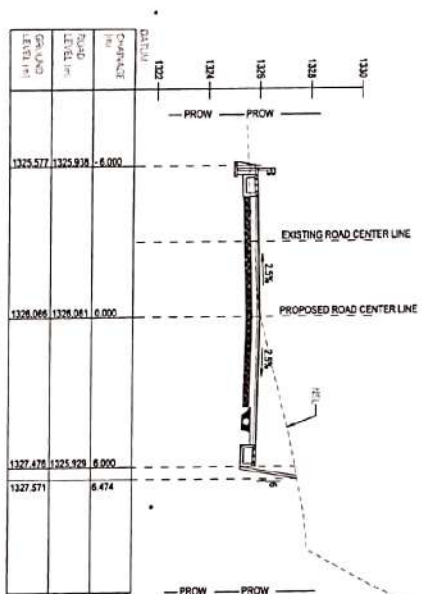
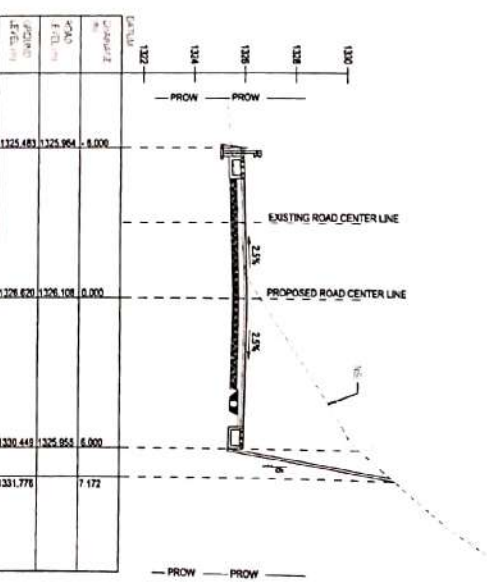
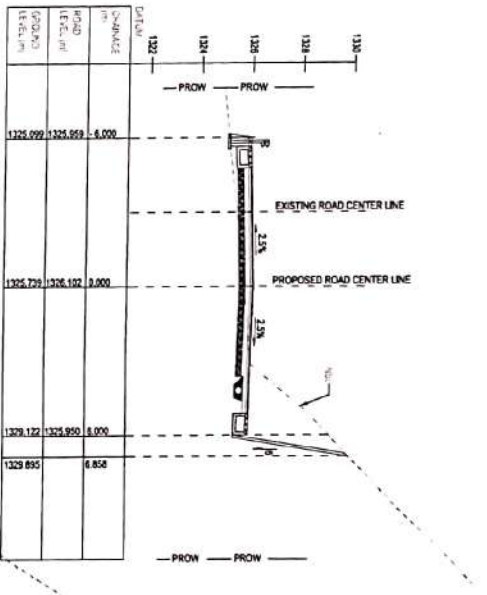
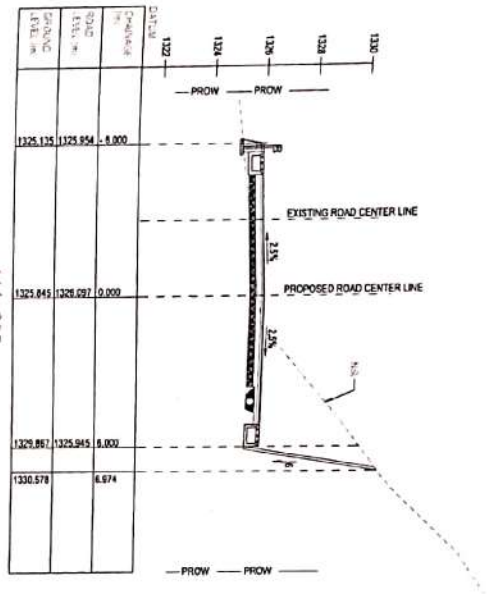


Scanned with OKEN Scanner



TITLE	PROPOSE CROSS SECTION





OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

1:2000 (HORIZ)
1:200 (VERT)

NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (NHIDCL)

MAHARAJA ENGINEERS PVT. LTD. (MPE)

DECORATIVE S. NAG INFRASTRUCTURE LTD.

KODAKA CONSULTANTS PVT. LTD.

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 439.000 TO KM 468.000 OF CHANOLI TO PAUNI (EXCLUDING KM 437.025 TO KM 437.775, KM 438.800 TO KM 439.475 AND KM 444.425 TO KM 444.525) OF NH-47 UNDER CHANDHAN PARIVAJAN ON EPC BASIS IN THE STATE OF UTTARANCHAL (PKG-III)

AS
SK
DK

DESIGNED BY
APPROVED BY

DRAWN BY
CHKD BY

DATE

1:2000 (HORIZ)
1:200 (VERT)

PROPOSE CROSS SECTION AT INTERVAL OF 25.00M

444+150 TO 444+275

444+150 TO 444+275

444+150 TO 444+275

444+150 TO 444+275

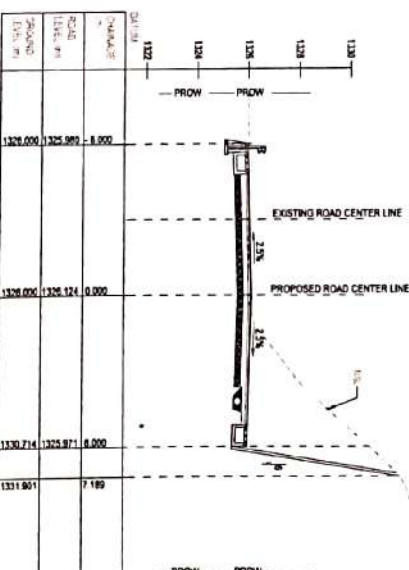
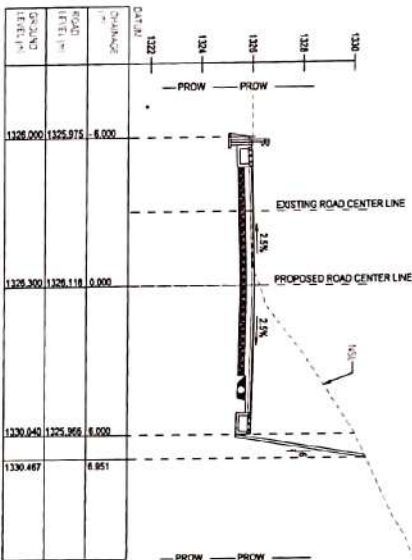
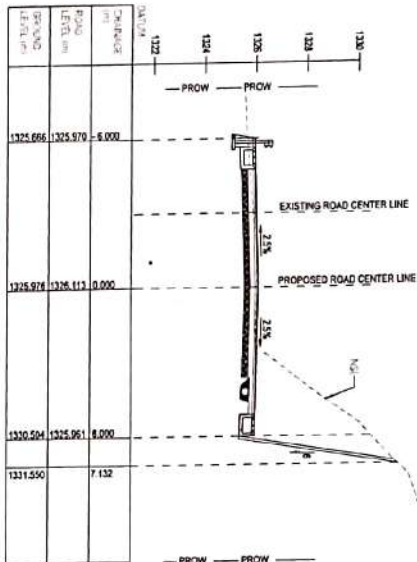
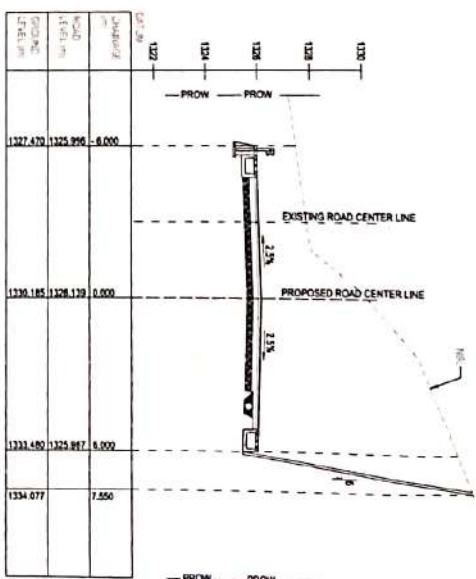
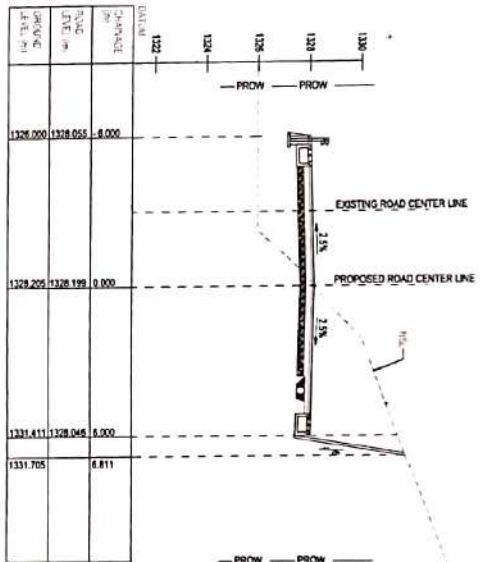
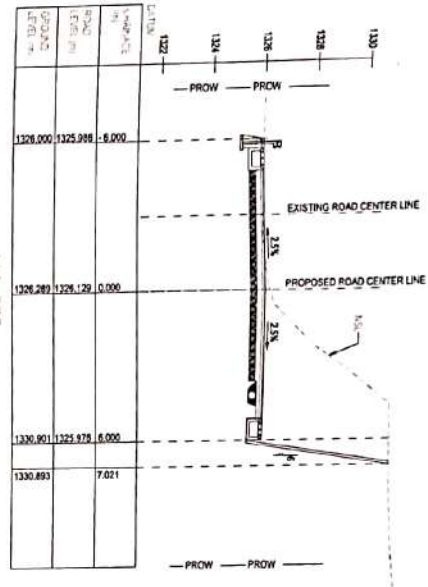
444+150 TO 444+275

444+150 TO 444+275

444+150 TO 444+275

444+150 TO 444+275

444+150 TO 444+275



OWNER ENGINEERING:

SAFETY CONSULTANT

EPIC CONTRACTOR

PROJECT CONSULTANT

PROJECT

CONSTRUCTION & UPGRADE OF EXISTING ROAD

TO 2 LANE WITH PAVED SHOULDERS FROM KM

444+300 TO 444+425 OF NH-47

UNDER CHANDHAN PARIYAYAM ON EPC BASIS IN THE

STATE OF UTTARAKHAND (PKC-III)

REVISION

DATE

DESCRIPTION

SCALE

1:200 (HOR)

REVISION R-0

OCT 2018

CONSTRUCTION & UPGRADE OF EXISTING ROAD

TO 2 LANE WITH PAVED SHOULDERS FROM KM

444+300 TO 444+425 OF NH-47

UNDER CHANDHAN PARIYAYAM ON EPC BASIS IN THE

STATE OF UTTARAKHAND (PKC-III)

REVISION

DATE

DESCRIPTION

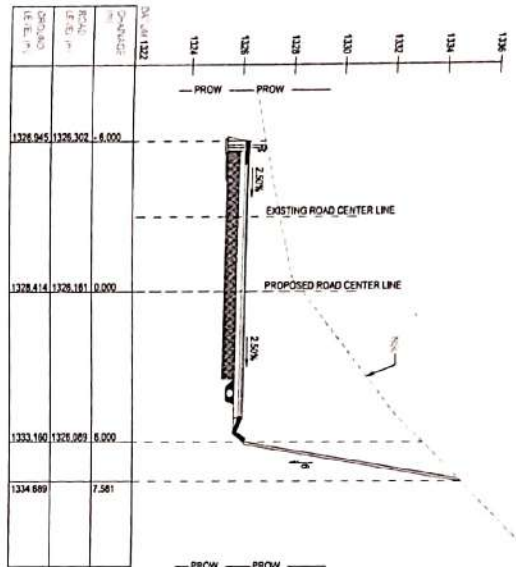
SCALE

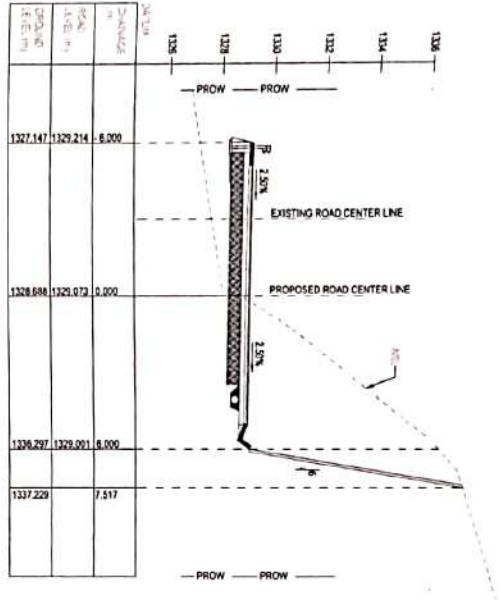
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REVISION R-0

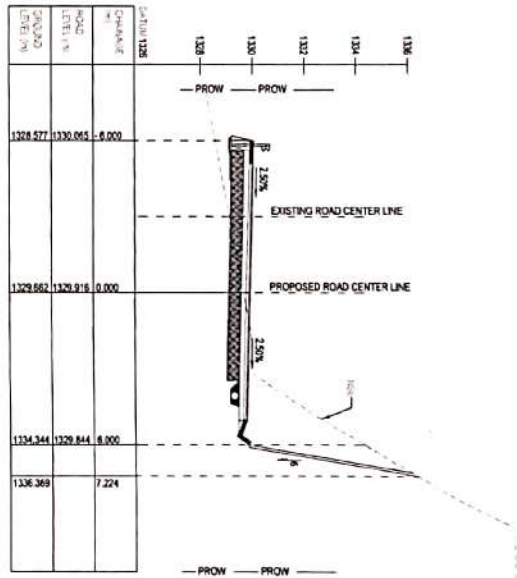
OCT 2018

OCT 2018

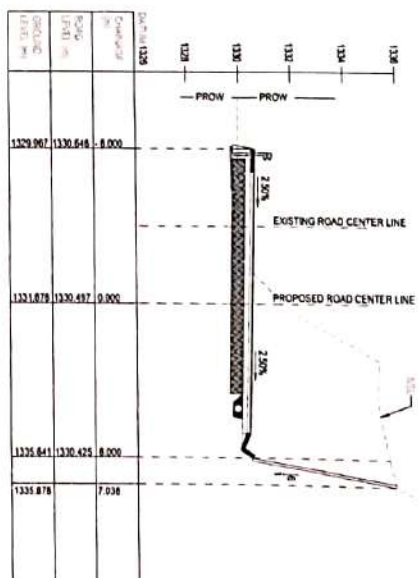




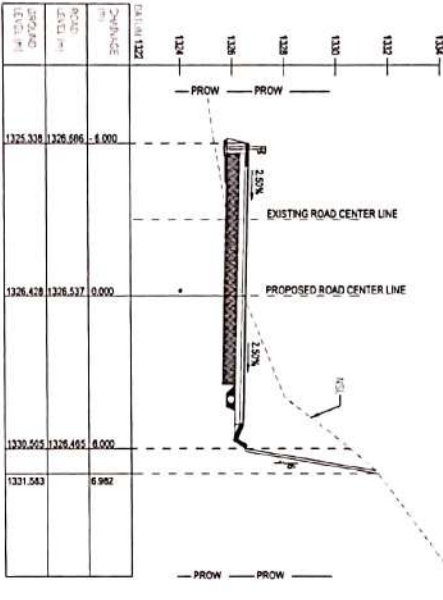
444+675



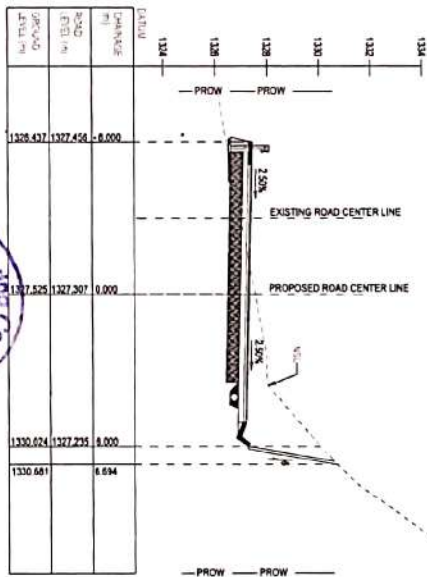
444+700



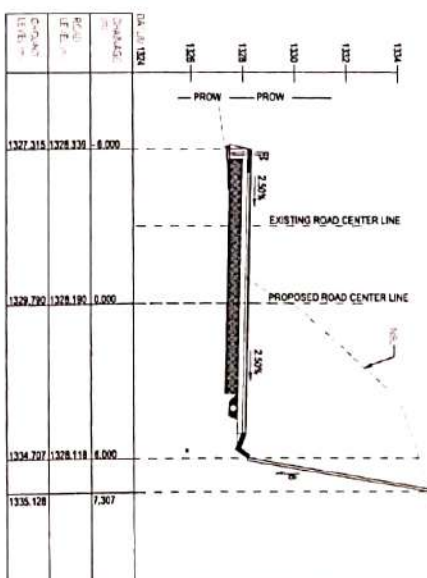
444+725



444+600



444+650



OWNER ENGINEERING

National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

SAFETY CONSULTANT

MANOHAR ENGINEERS PVT. LTD. MEPL

EPC CONTRACTOR

DESIGN & CONSTRUCTION INFRASTRUCTURE LTD.

PROJECT CONSULTANT

KSC GLOBAL CONSULTANTS PVT. LTD. 201, Kalyani, Sector-1, Dwarka, New Delhi 110015

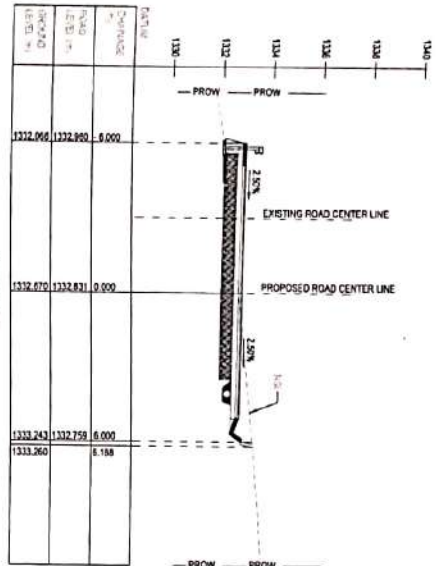
PROJECT

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH FURRED SHOULDERS FROM KM 439.425 TO KM 444.425 OF NH-47 UNDER CHANDHAN PARITIAH (PNC-III) STATE OF UTTARANCHAL (PNC-III)

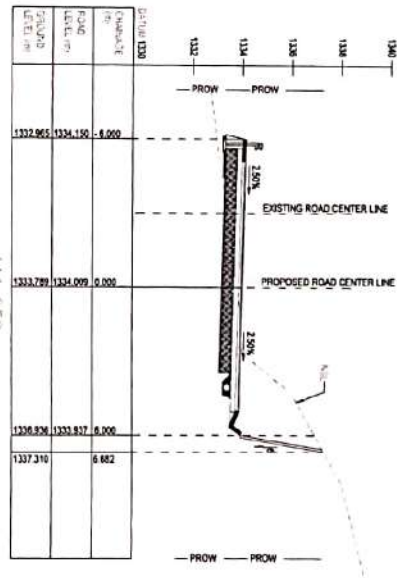
REV	DATE	DESCRIPTION

DRAWN BY	AS
DESIGNED BY	SK
APPROVED BY	DK
SCALE	1:2000 (H&V)

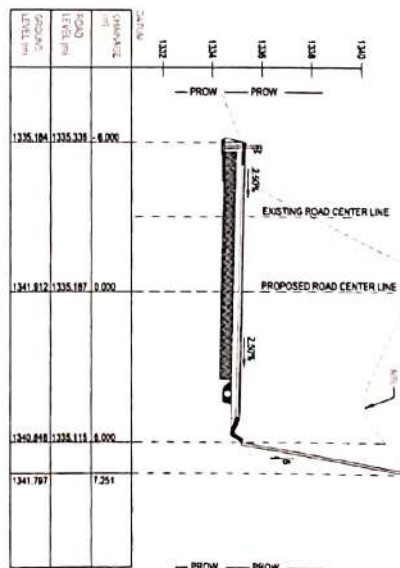
TITLE	PROPOSE CROSS SECTION AT INTERVAL OF 25.00M
DRG. NO.	CP/ROAD/PP/135
REVISION	R-0
DATE	OCT 2018



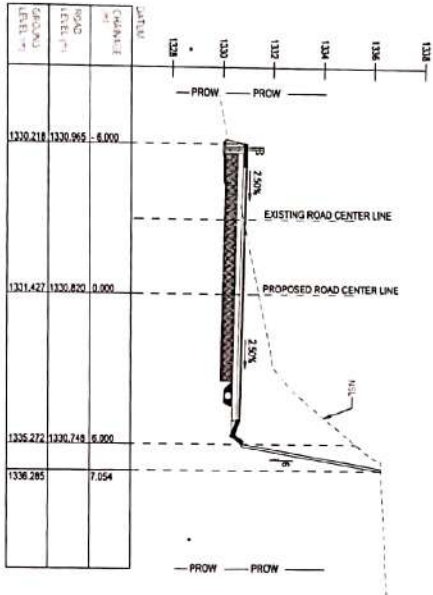
444+825



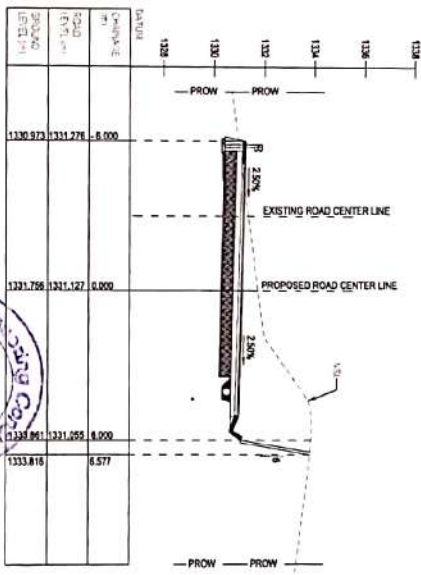
444+850



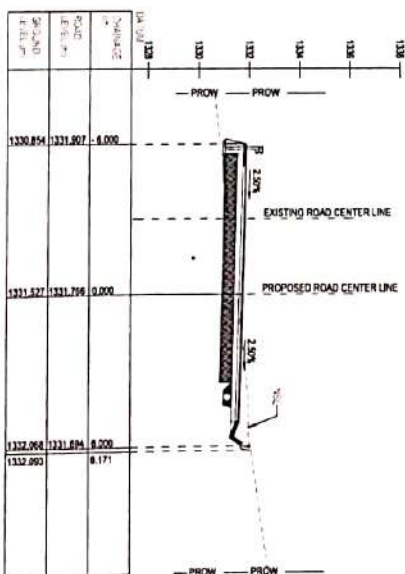
444+875



444+750



444+800



444+900

OWNER ENGINEERING:



National Highway & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT:



MAMOMAY ENGINEERS PVT. LTD. MEPL

EPC CONTRACTOR:



S. KUMAR INFRASTRUCTURE LTD

PROJECT CONSULTANT:



NDC SPECIAL CONSULTANTS PVT. LTD.
307, Nehru Park, Sector 14, Gurgaon,
Haryana, India (122005)
www.ndcspecial.com

PROJECT:

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 458.000 TO KM 468.000 OF CHANOLI TO PANI DECHU ROAD (NH 47) TO KM 457.75 (NH 47) UNDER CHANDRAHAR PARIYATN ON EPC BASIS IN THE STATE OF UTTARAKHAND (PK-III)

REV

REV	DATE	DESCRIPTION

DRAWN BY

AS

DESIGNED BY

SK

APPROVED BY

DK

DRG NO.

CP/ROAD/PI/138

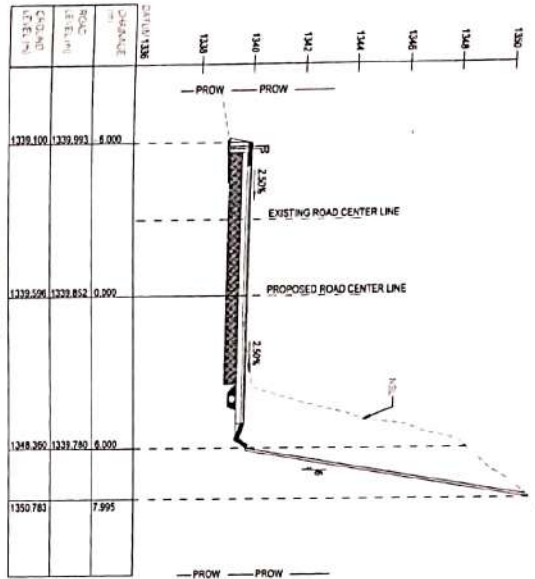
REVISION R-D

OCT 2018

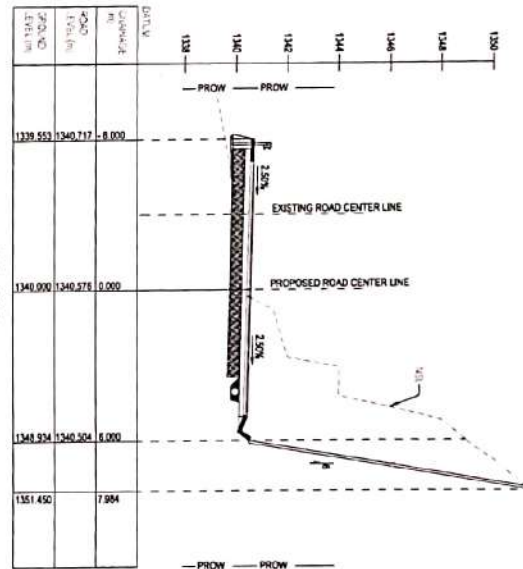
TITLE:

PROPOSE CROSS SECTION AT INTERVAL OF 25.00m

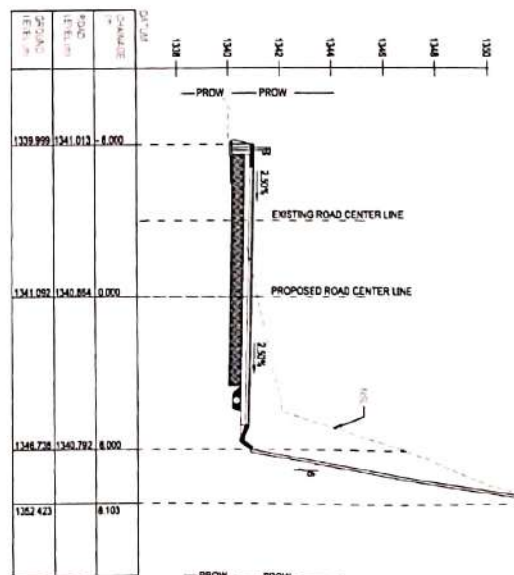
444+750 TO 444+975



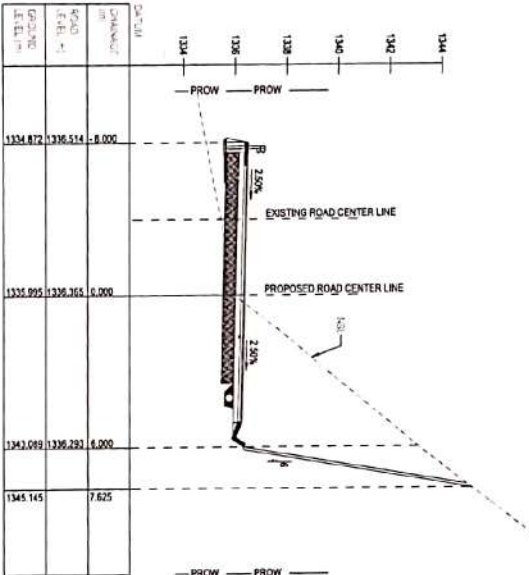
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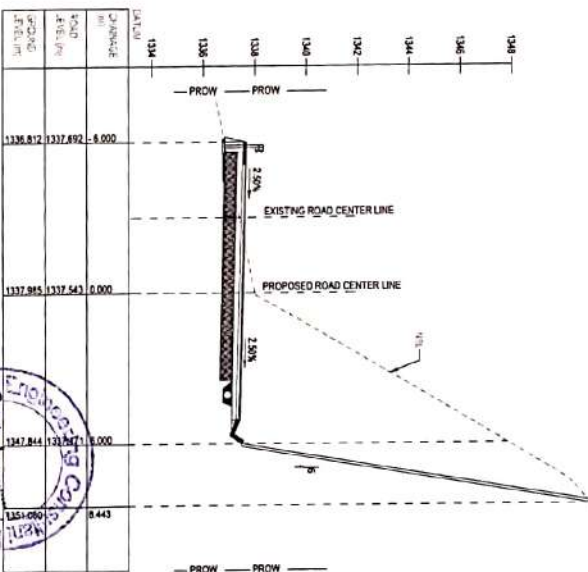
445+000



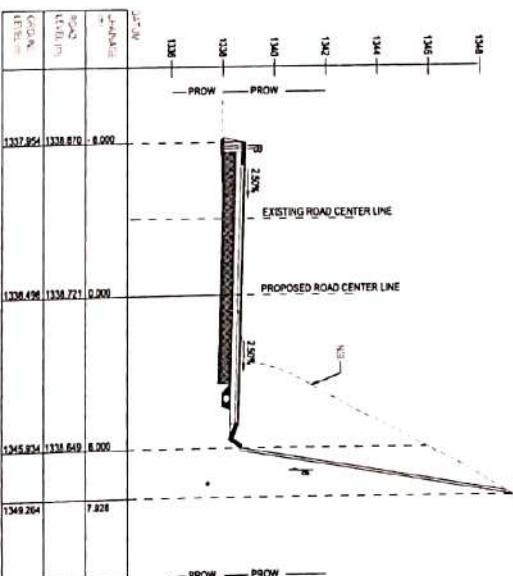
445+025



444+900



444+925



444+950

OWNER ENGINEERING



SAFETY CONSULTANT



EPC CONTRACTOR



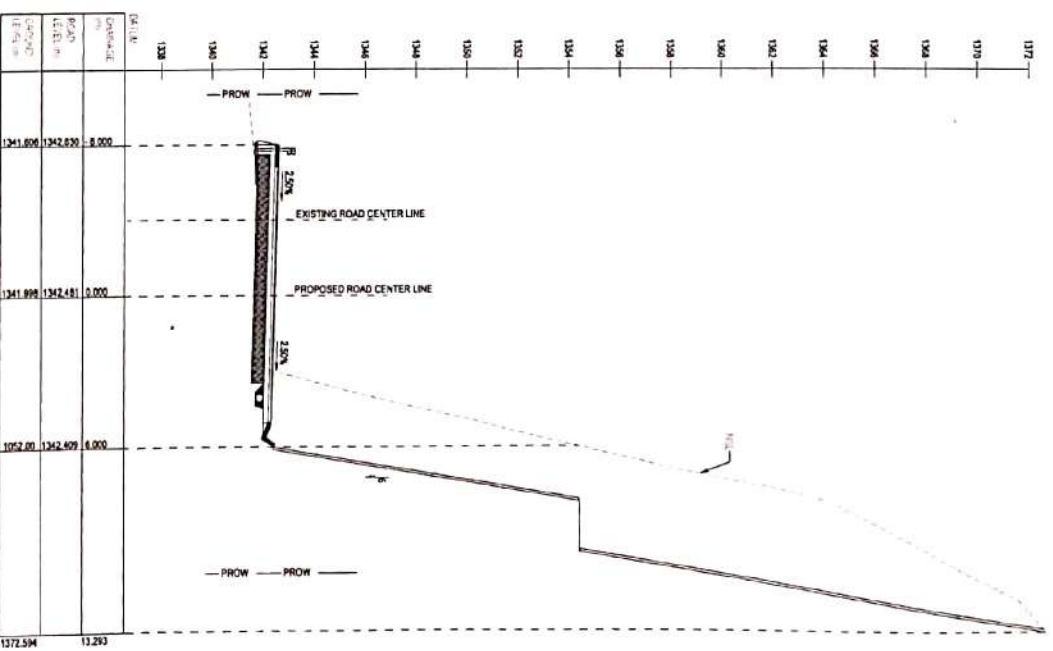
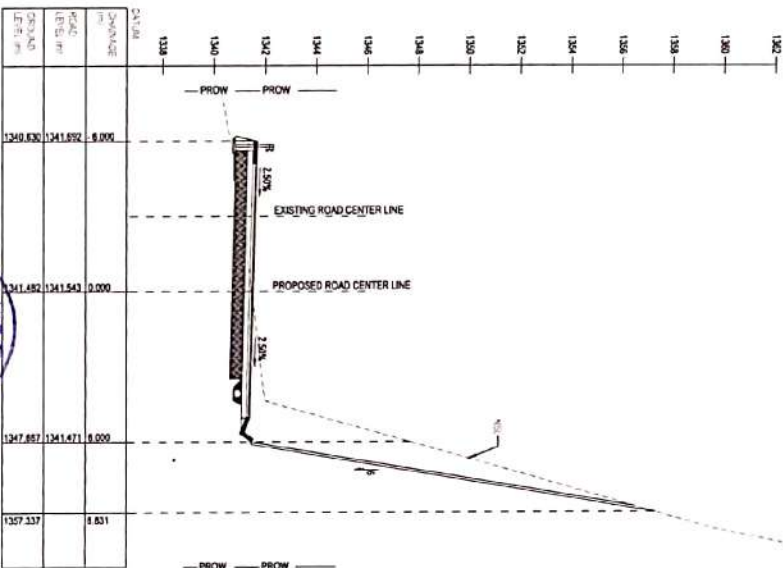
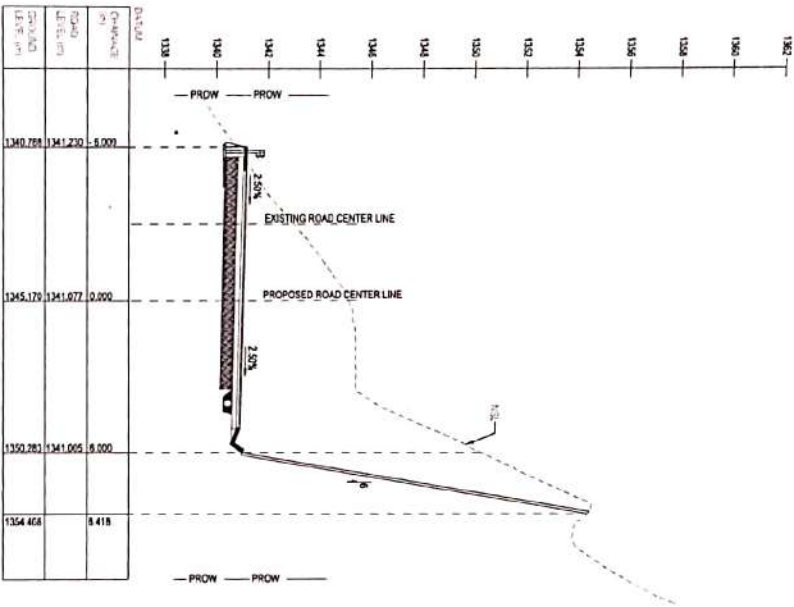
PROJECT CONSULTANT



PROJECT

CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANOLI TO PAUNI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.900 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHAROHAM PARYOJANA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKC-III)

REV	DATE	DESCRIPTION	DRAWN BY	AS	TITLE
			DESIGNED BY	SK	AT INTERVAL OF 25.00m
			APPROVED BY	DK	444+900 TO 445+025
			SCALE	1:200 (HCR)	
			SCALE	1:200 (VER)	
			DRG NO	CP/ROAD/PP/137	
			REVISION	R-0	
					OCT 2018



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

DRAWN BY

TITLE

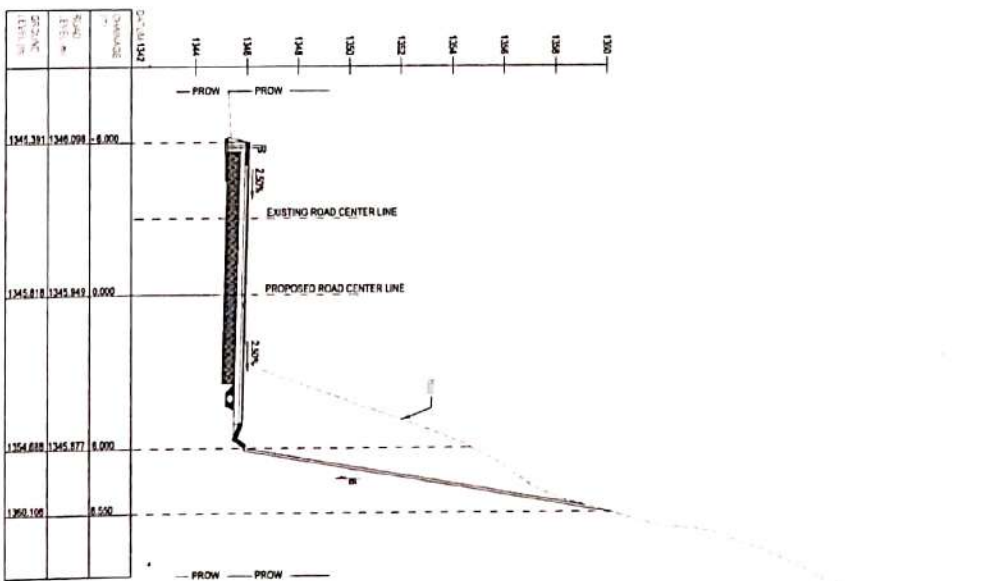
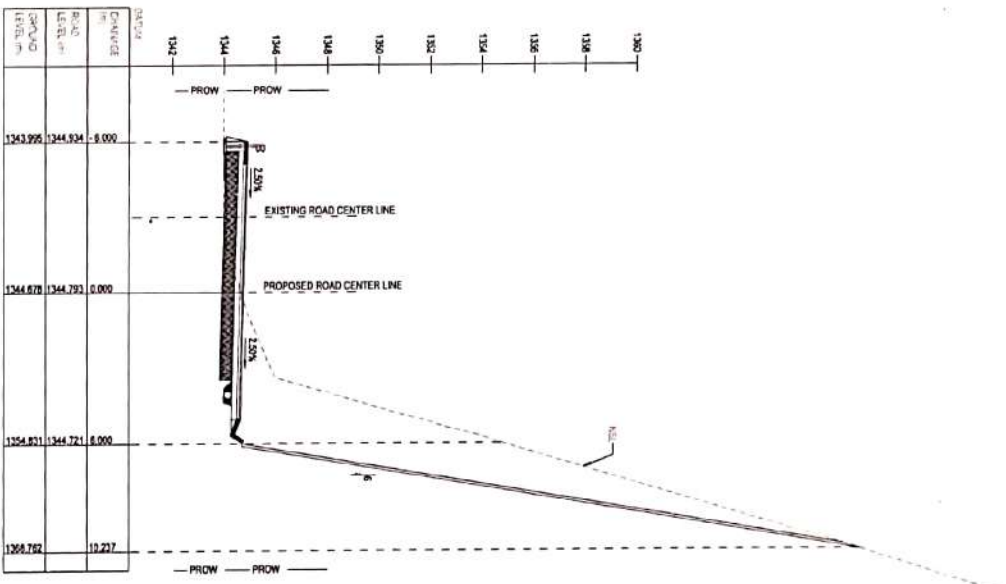
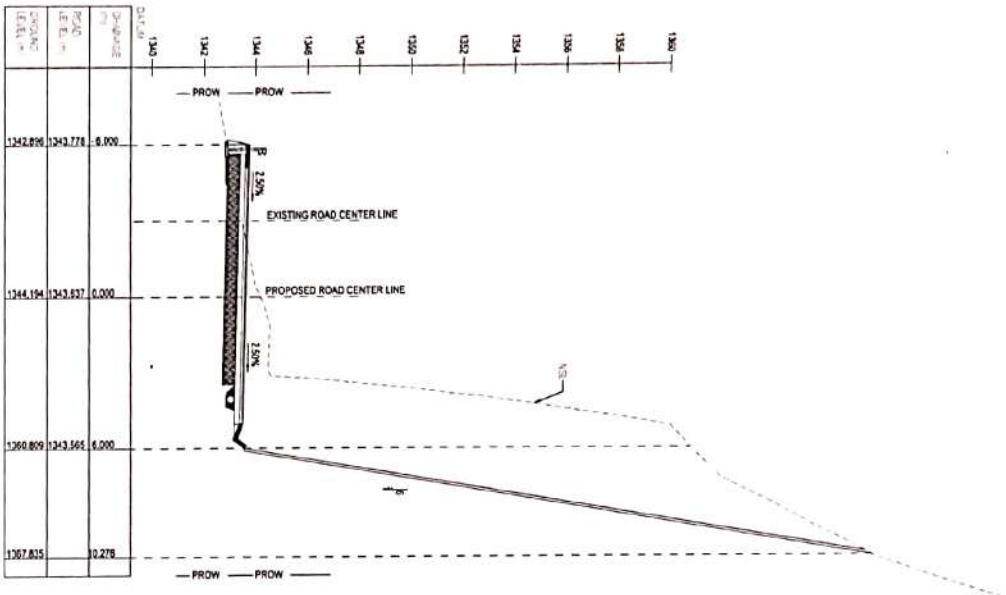


CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 438.608 TO KM 468.000 OF CHANGLU TO PAINI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.808 TO KM 459.415 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHANDIMAN TANTOLINA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PK-410)

REV	DATE	DESCRIPTION

DESIGNED BY: SK
APPROVED BY: DK
SCALE: 1:200 (HOR)
1:200 (VER)

DWG NO: CPROAD/P/138
REVISION: R-0
OCT 2018



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 460.000 OF CHAMOLI TO PAINI (EXCLUDING KM 437.625 TO KM 437.775, KM 438.900 TO KM 439.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHARDHAM PARYAJNA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-III)

DRAWN BY AS

TITLE: PROPOSE CROSS SECTION AT INTERVAL OF 25.00M 445+125 TO 445+175

DESIGNED BY SK

APPROVED BY DK

DRG NO. CPM/ROAD/PP/138

REVISION R40

SCALE 1:2000 (HQR) 1:200 (VER)

OCT 2018

MANOMAY ENGINEERS PVT. LTD. MNL

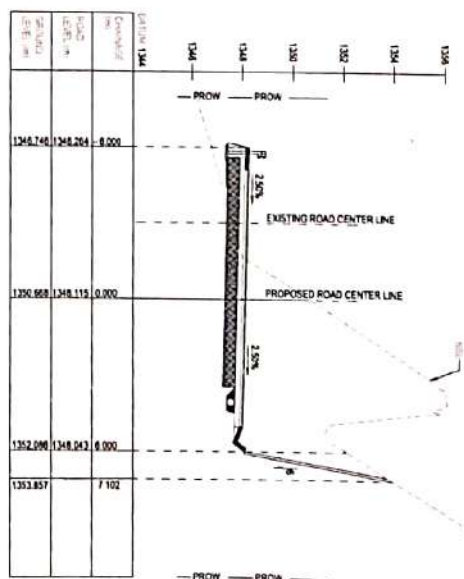
NGK INFRASTRUCTURE LTD

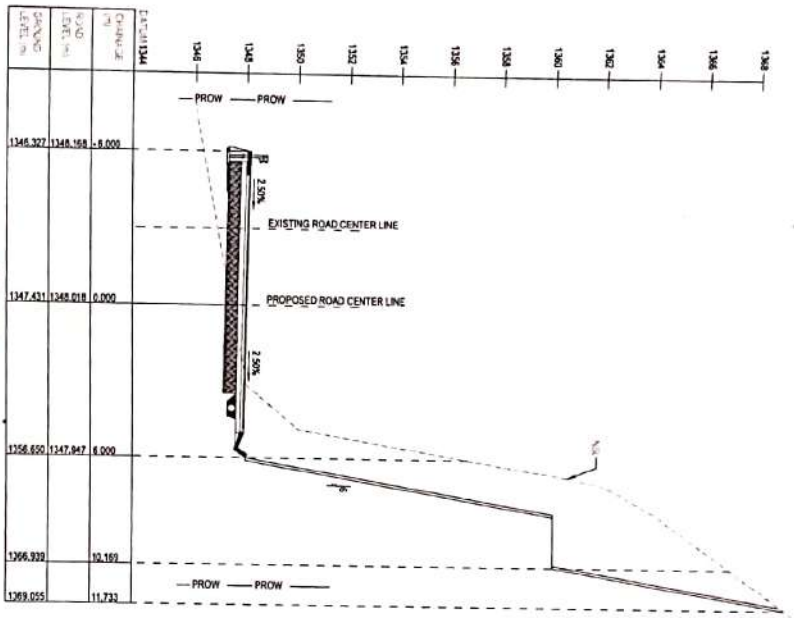
KODGLOD CONSULTANTS PVT. LTD.

30 KARNI, Sector 14, Dwarka, New Delhi, India, 110075

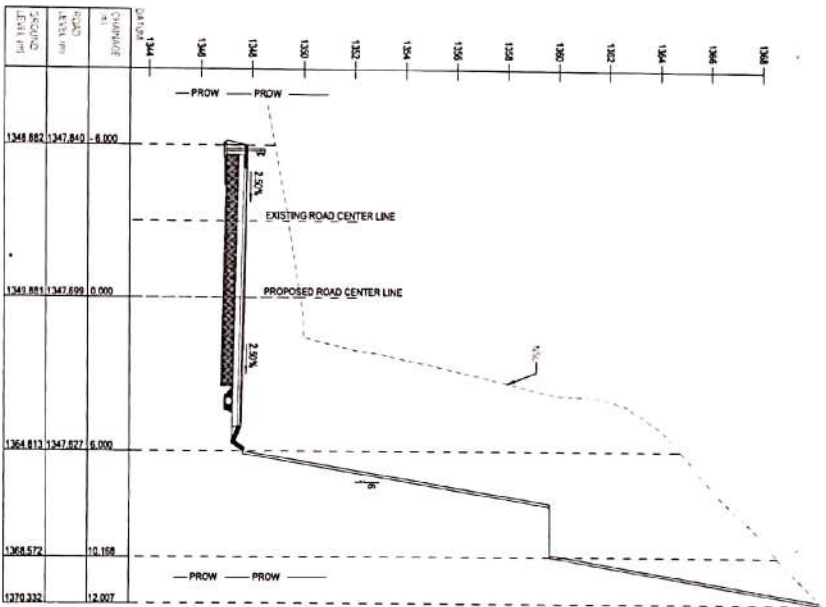
www.kodgloconsultants.com

Stamp: Project Consultant

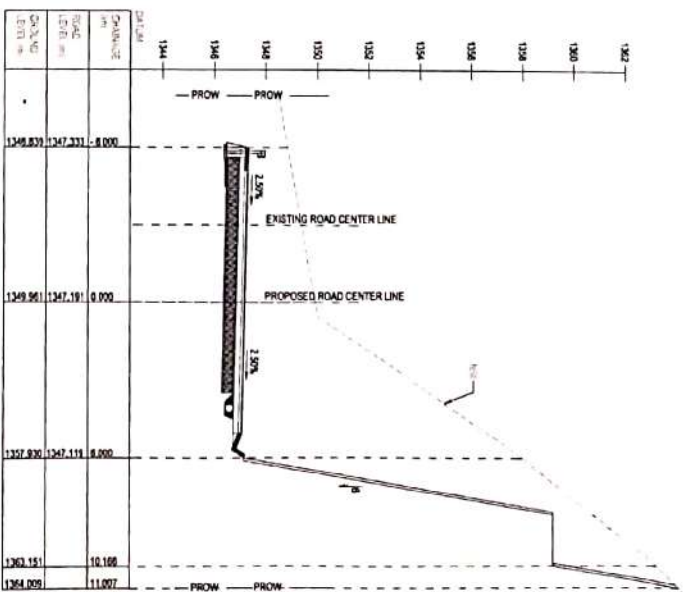




445+300



445+325



445+350

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

1:2000 (HOR)

REVISION

R.D

OCT 2018

TITLE

PROPOSE CROSS SECTION

AT INTERVAL OF 25.00m

445+300 TO 445+350

DRG NO : CP/ROAD/PP/141

CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANGHAT TO PAUNI (EXCLUDING KM 437.625 TO KM 437.775, KM 455.000 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHARDHAM PARVATIA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-III)

REV

DATE

DESCRIPTION

SCALE

1:2000 (HOR)

REVISION

R.D

OCT 2018

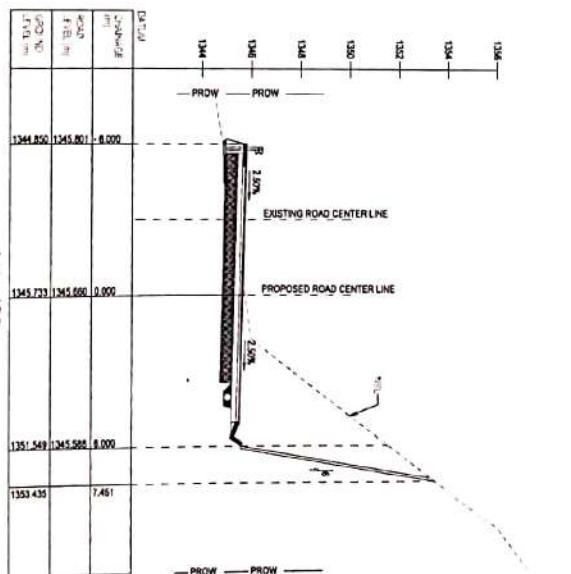
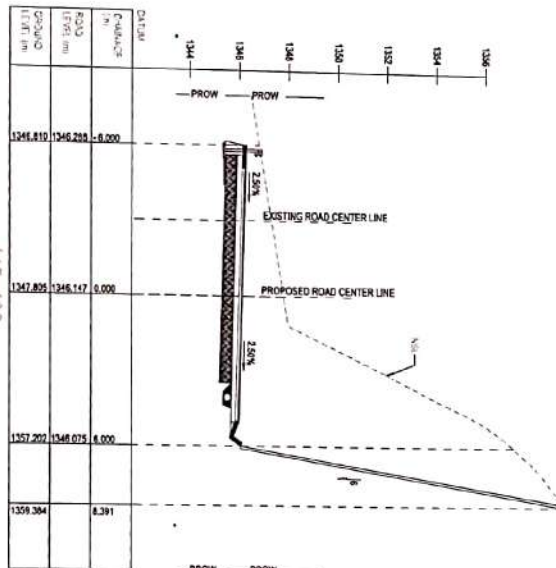
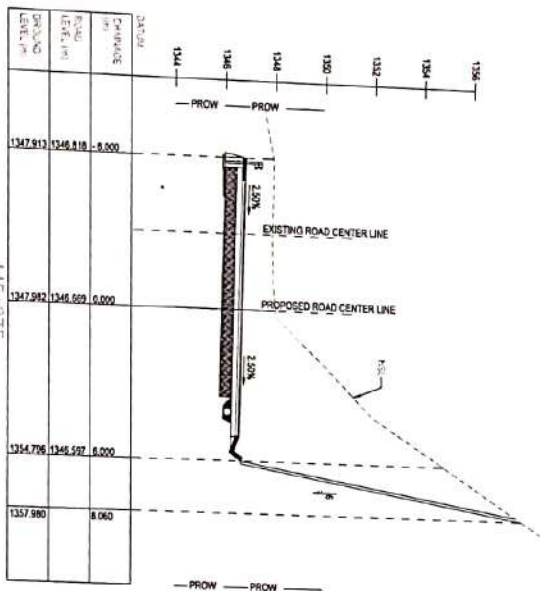
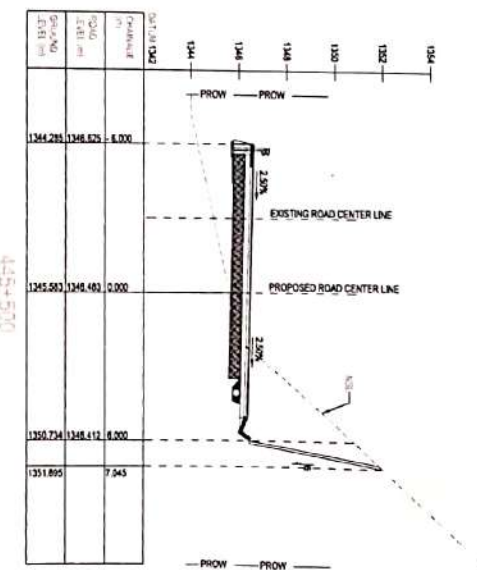
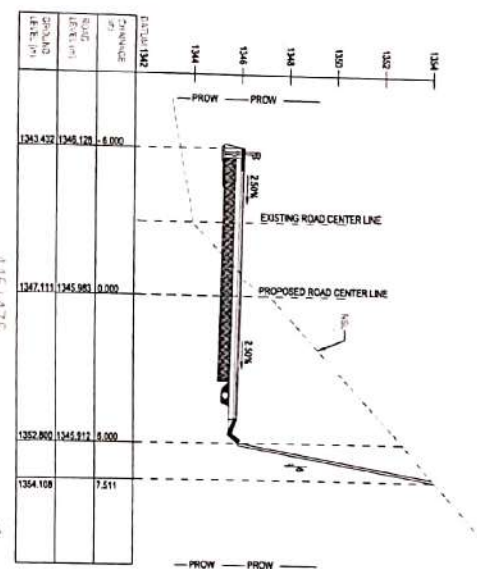
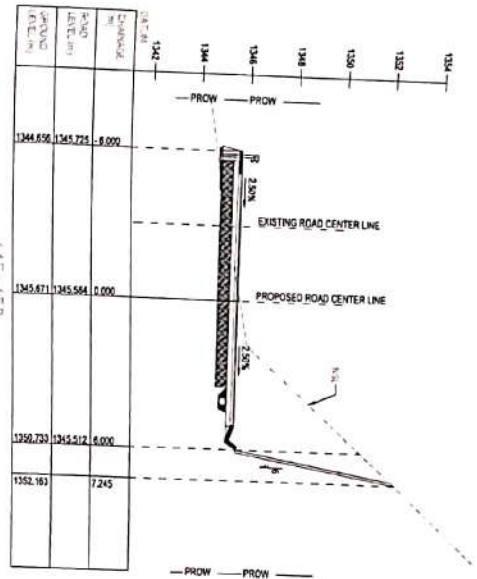
TITLE

PROPOSE CROSS SECTION

AT INTERVAL OF 25.00m

445+300 TO 445+350

DRG NO : CP/ROAD/PP/141



OWNER ENGINEERING :



National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

SAFETY CONSULTANT :



MME PVT. LTD. MEPL

EPC CONTRACTOR :



NKG INFRASTRUCTURE LTD

PROJECT CONSULTANT :



RSC CONSULTANTS PVT. LTD.

PROJECT :

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 40' WIDE WITH SHOULDER, FROM PLAN KM 430.865 TO KM 435.000 OF CHANDRAM PARVATI ROAD EXCLUDING KM 437.825 TO KM 437.775 FOR 48.80 TO UNDER CHANDRAM PARVATI ROAD ON EPC BASIS IN THE STATE OF UTTARAKHAND (PG-III)

REVISION :

REV	DATE	DESCRIPTION

DRAWN BY :

AS

DESIGNED BY :

SK

APPROVED BY :

DK

SCALE :

1:2000 (HCB)
1:200 (MFB)

TITLE :

PROPOSE CROSS SECTION AT INTERVAL OF 25.00m

445+375 TO 445+500

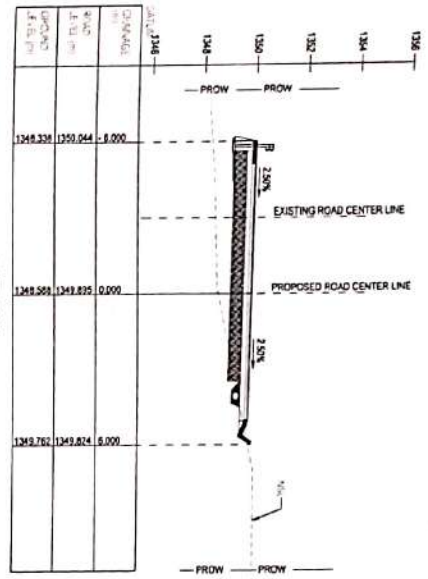
DRG NO :

CP/ROAD/PP/142

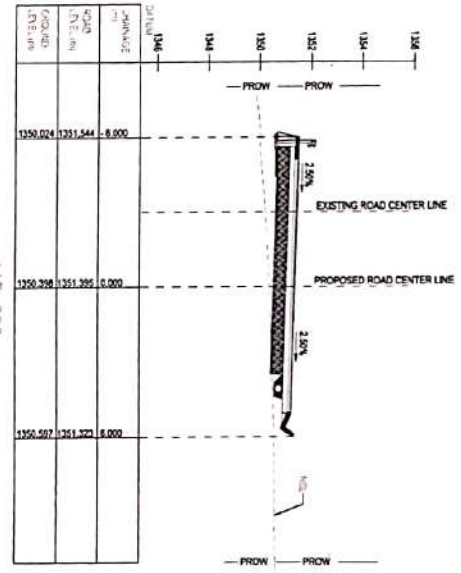
REVISION :

NO

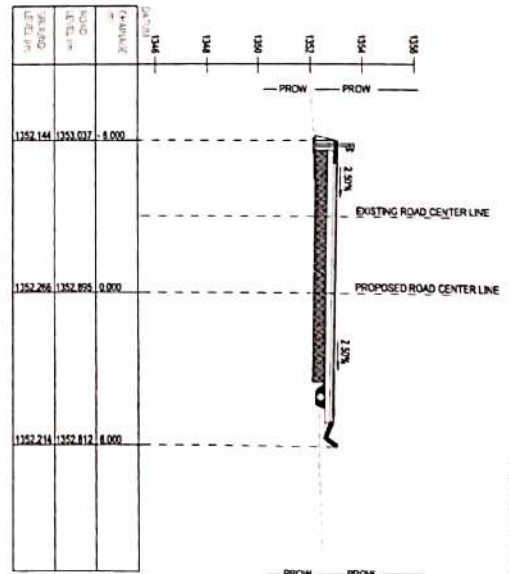
OCT 2018



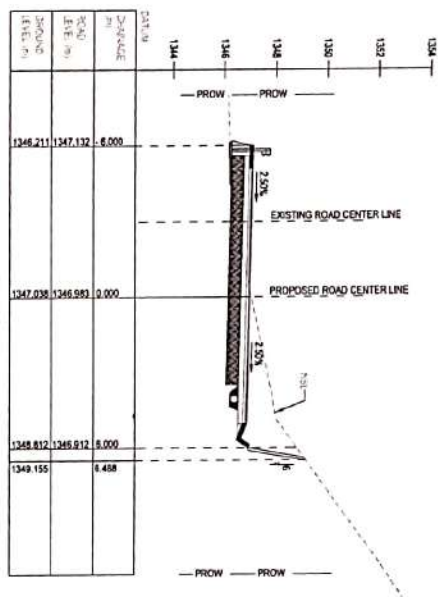
445+600



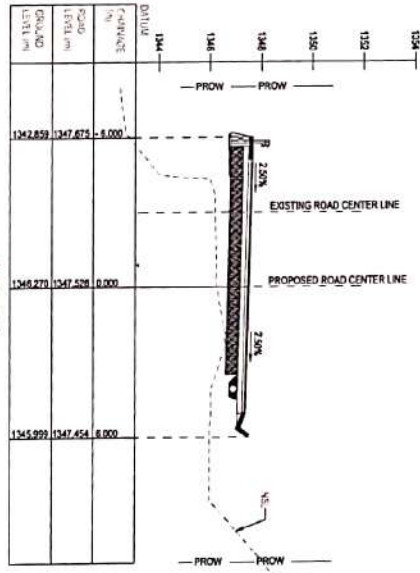
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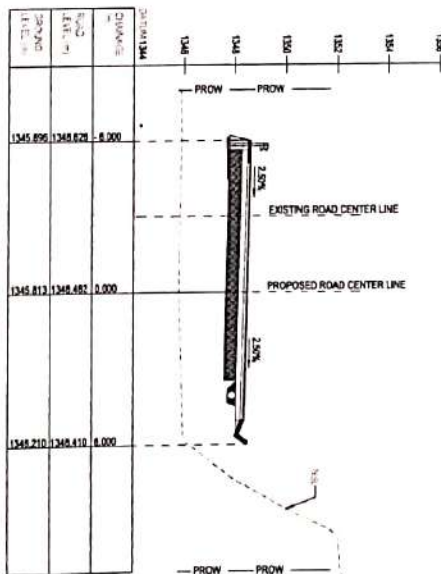
445+650



445+525



445+550



445+675

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 3-LANE WITH PAVED SHOULDERS, LEOM-KAM (EXCLUDING KM 437.625 TO KM 437.775, KM 438.900 TO KM 439.475 AND KM 444.425 TO KM 444.525) OF NH-07 UNDER CHANDHAN PARVATIYA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PK-811)

REV DATE DESCRIPTION

DRAWN BY AS

DESIGNED BY SK

APPROVED BY DK

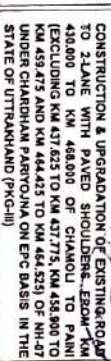
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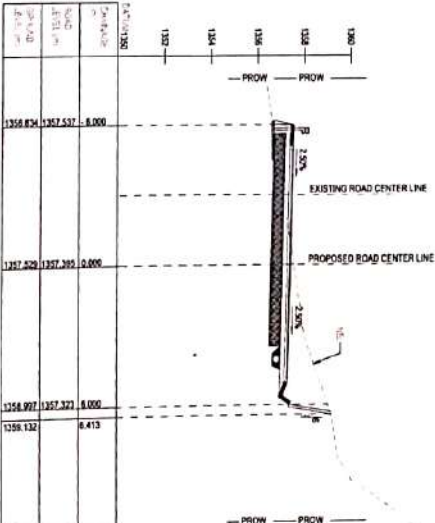
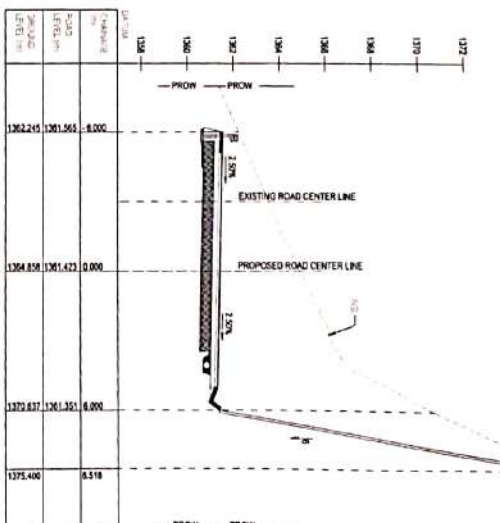
SCALE 1:200 (VER)

REVISION R-0

OCT 2018

TITLE PROPOSE CROSS SECTION AT INTERVAL OF 25.00M 445+525 TO 445+650

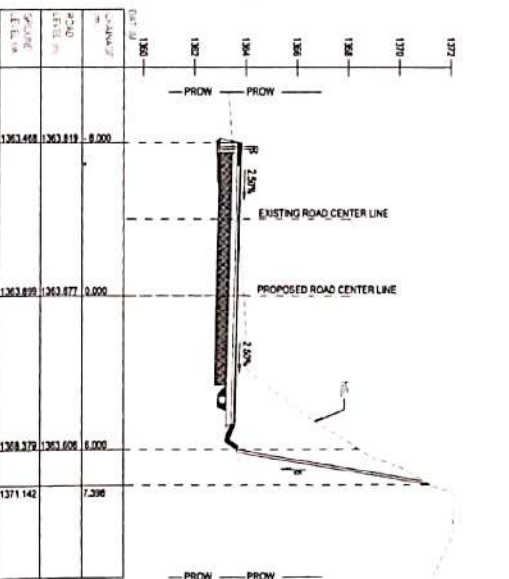
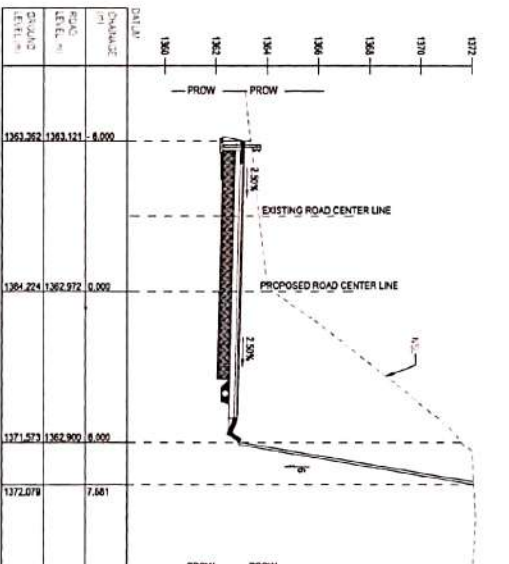
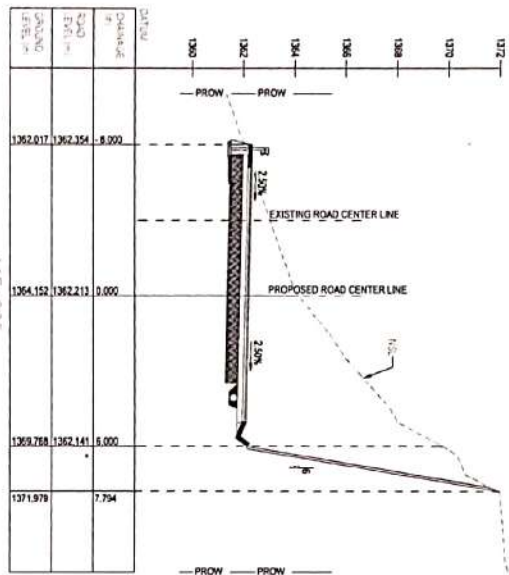
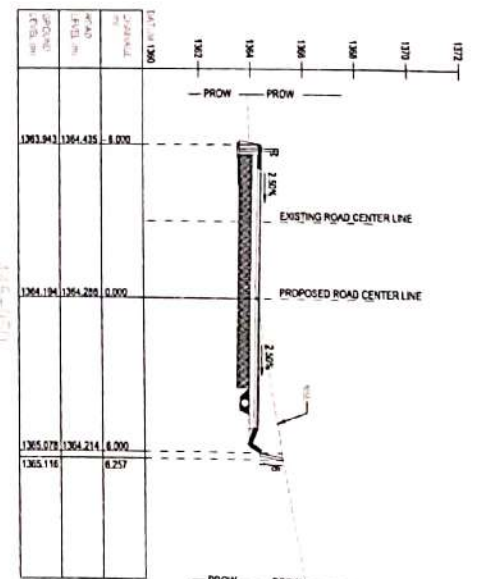
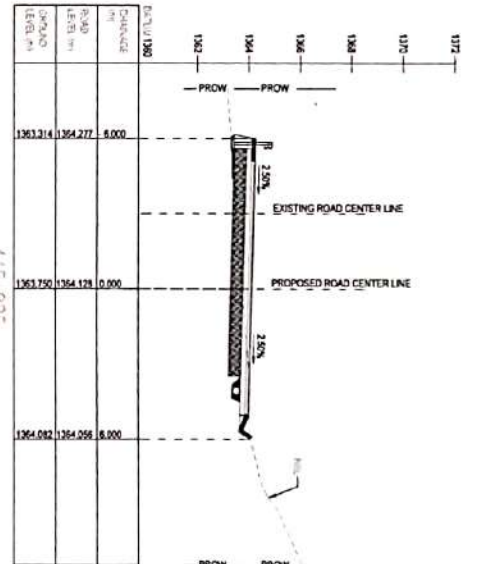
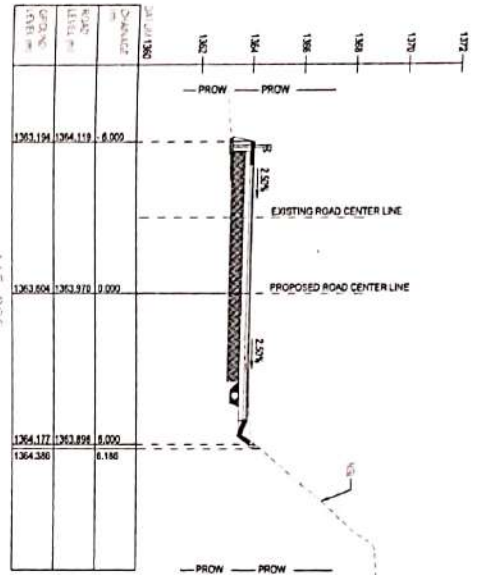


 $4 \div 5 = 721$

TIME: PROPOSE CROSS SECTION

AT INTERVAL OF 25.00m
445+675 TO 445+800

DRG. NO.	CP/Road/PP/144
REVISION R-0	



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

DRAWN BY

TITLE

National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

MANOMAV ENGINEERS PVT. LTD. MEPL

DR. A. K. SINGH & PARTNERS NKG INFRASTRUCTURE LTD

DR. A. K. SINGH & PARTNERS PVT. LTD. 307, Sector 14, Dwarka, New Delhi-110075

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDER FROM KM 43+00 TO KM 48+00 OF CHAMOLI TO PAINI HIGHWAY TO KM 43+00 OF CHAMOLI TO PAINI HIGHWAY UNDER CHAMOLI PARVATIA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PK44)

REV. DATE DESCRIPTION

DESIGNED BY SK

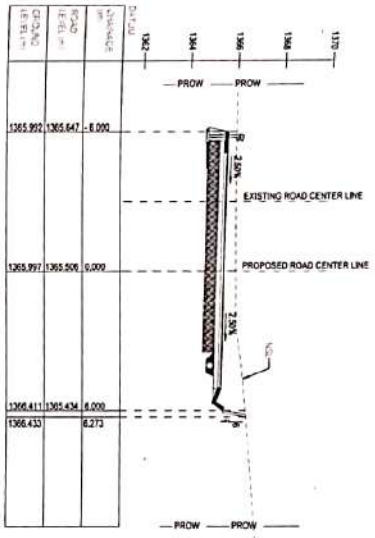
APPROVED BY DK

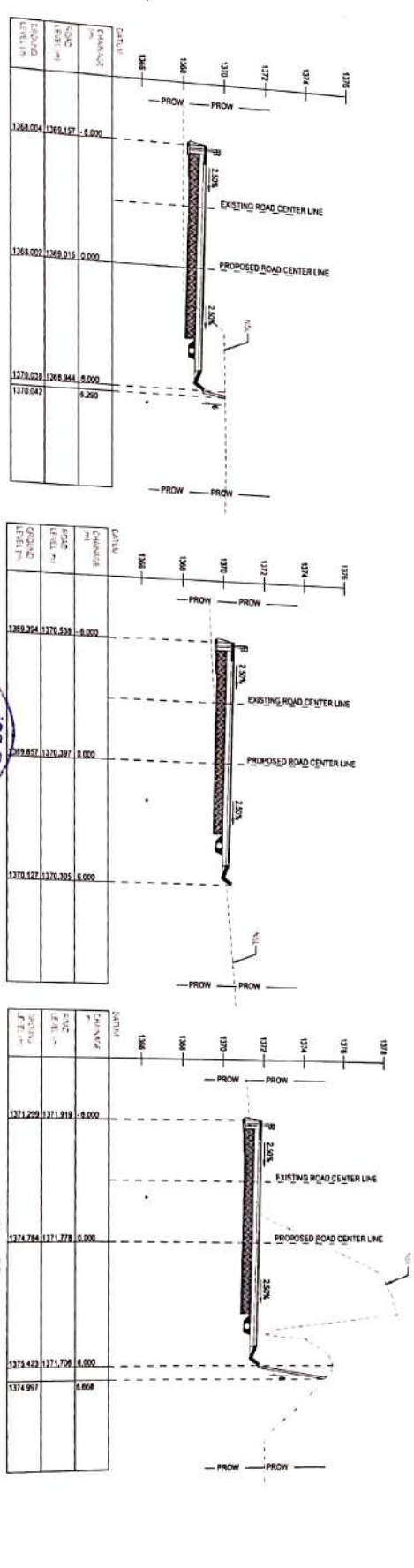
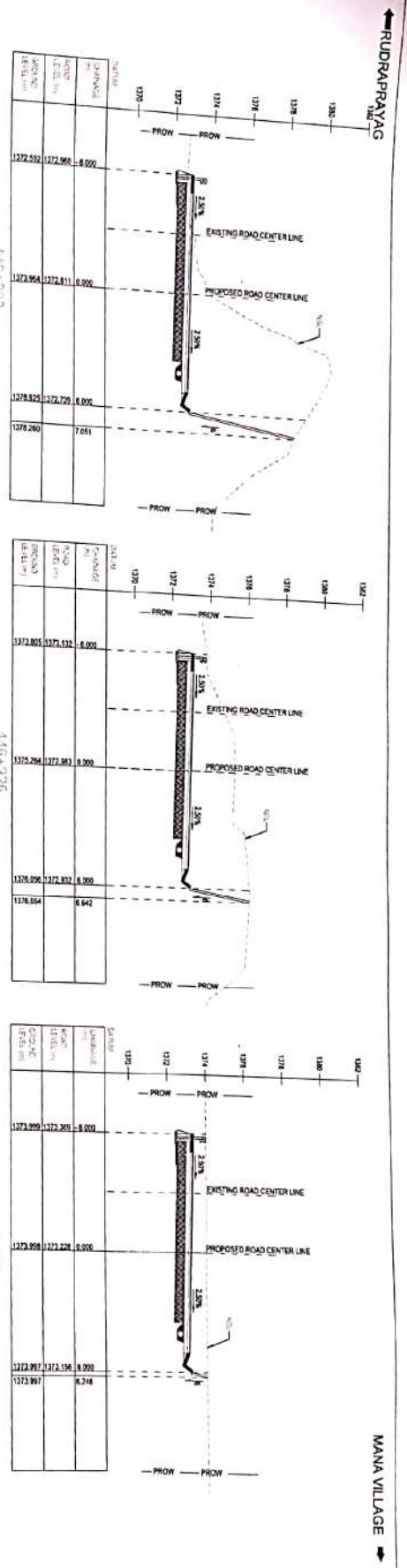
REVISION R-0



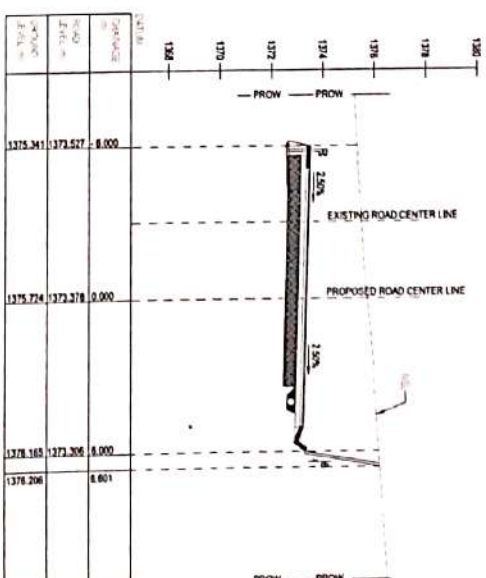
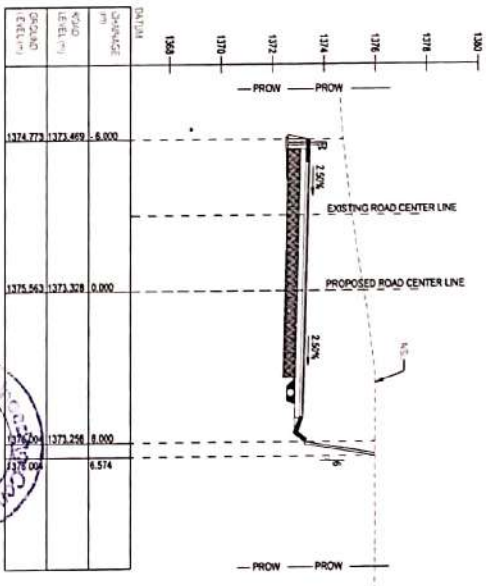
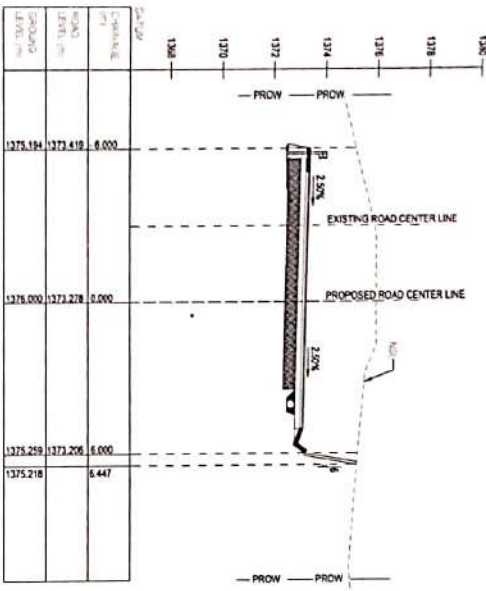
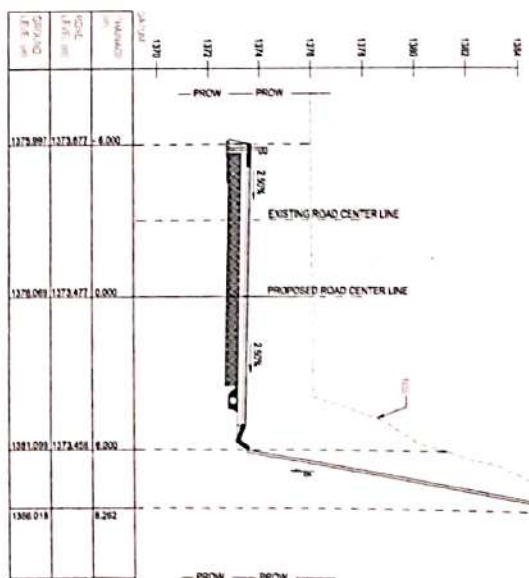
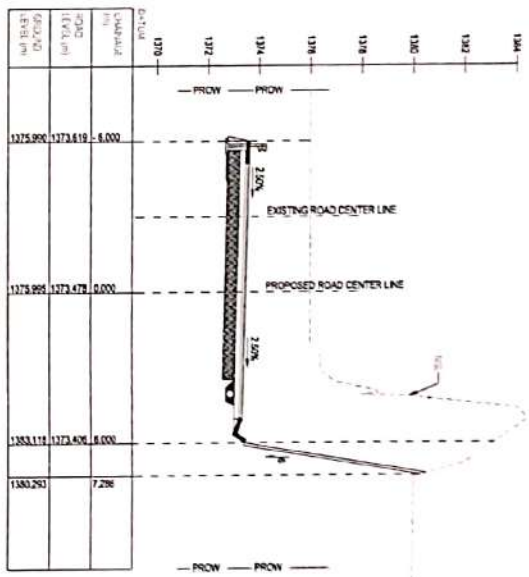
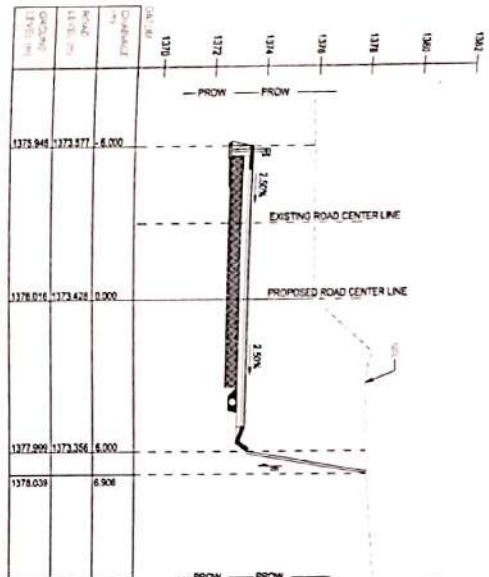
← RUDRAPRAYAG

MANA VILLAGE →





OWNER ENGINEERING National Highway & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT MAMMA ENGINEERS PVT. LTD. MPPL		EPC CONTRACTOR NKS INFRASTRUCTURE LTD	
PROJECT CONSULTANT PROJECT CONSULTANTS PVT. LTD. 30, Sakinaka, Sector 14, Dwarka, New Delhi - 110075 www.projectconsultantsindia.com		PROJECT CONSTRUCTION & UPGRADEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 448.000 OF CHANOLI TO PAUNI (EXCLUDING KM 437.525 TO KM 437.775, KM 438.800 TO KM 439.475 AND KM 444.425 TO KM 444.525) OF NH-47 UNDER CHARGHAM PARPOUNA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PGC-III)			
REV	DATE	DESCRIPTION	SCALE	1:300 (HCR)	1:200 (VER)
DRAWN BY: AS DESIGNED BY: SK APPROVED BY: DK			TITLE: PROPOSE CROSS SECTION AT INTERVAL OF 25.00m 446+125 TO 446+250 DRG NO: CPROAD/PP/147 REVISION: R-4 OCT 2018		



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROF CONSULTANT

PROJECT

DRAWN BY

TITLE

National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

MANA VILLAGE PVT LTD. MEPL

NAG INFRASTRUCTURE LTD.

PROF CONSULTANT: M.C. GLOBAL CONSULTANTS PVT. LTD.

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHANGLU TO PAINI (EXCLUDING KM 437.625 TO KM 437.775, KM 438.305 TO KM 439.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHANGLUHMAN PAINI ON EPC BASIS IN THE STATE OF UTTARAKHAND (PK-III)

REV. DATE DESCRIPTION

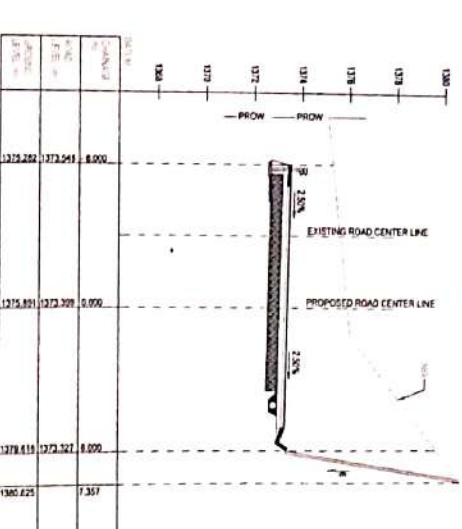
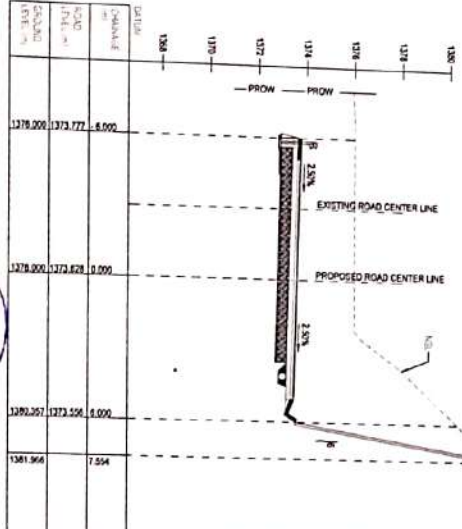
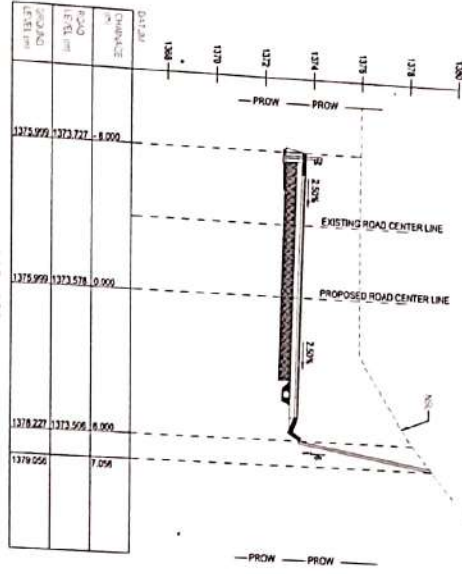
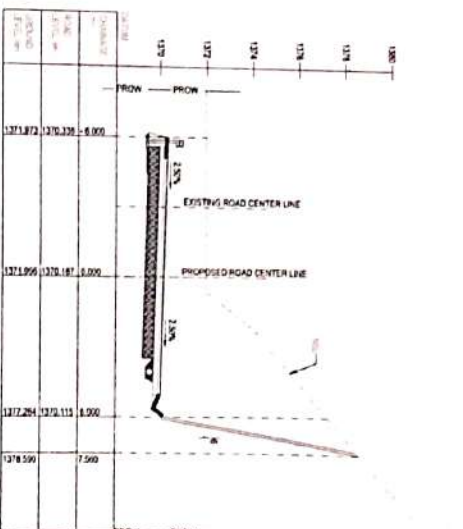
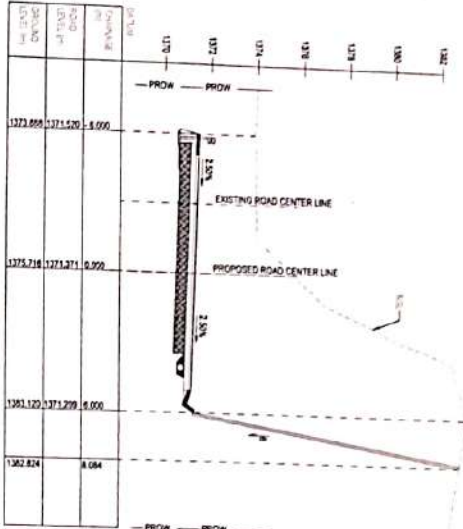
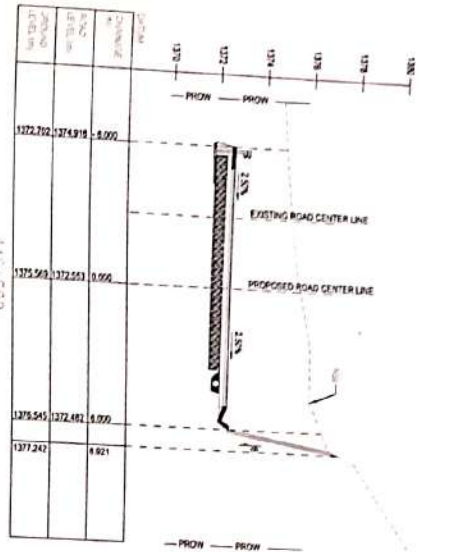
DESIGNED BY SK

APPROVED BY DK

OCT 2018

RUDRAPRAYAG

MANA VILLAGE



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROOF CONSULTANT

PROJECT

REV

DATE

DESCRIPTION

SCALE

REVISION

R.D

OCT 2018



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)



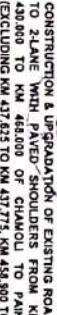
MME PVT LTD



DES INFRASTRUCTURE LTD



PROOF CONSULTANTS PVT LTD



PROJECT & UPGRADEMENT OF EXISTING ROAD CONSTRUCTION TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLI TO PAINI (EXCLUDING KM 437.625 TO KM 437.775, KM 451.500 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-47 UNDER CHARHANA PARTITION ON EPC BASIS IN THE STATE OF UTTARAKHAND (PHG-III)

DESIGNED BY

APPROVED BY

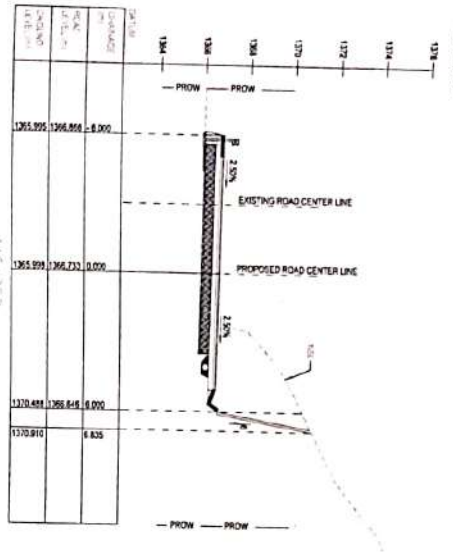
DRG NO.

CPRD/PP/148

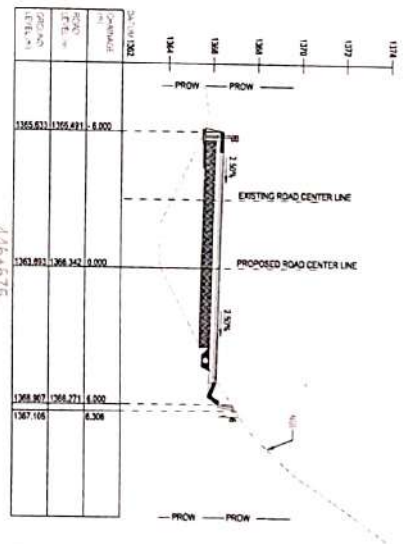
PROPOSE CROSS SECTION AT INTERVAL OF 25.00M

446+425 TO 446+550

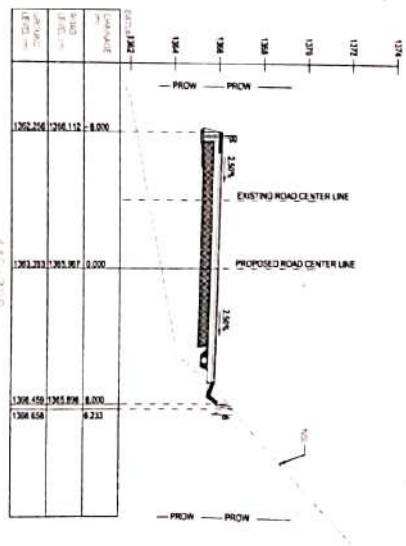
RUDRAPPAVAG



446+650

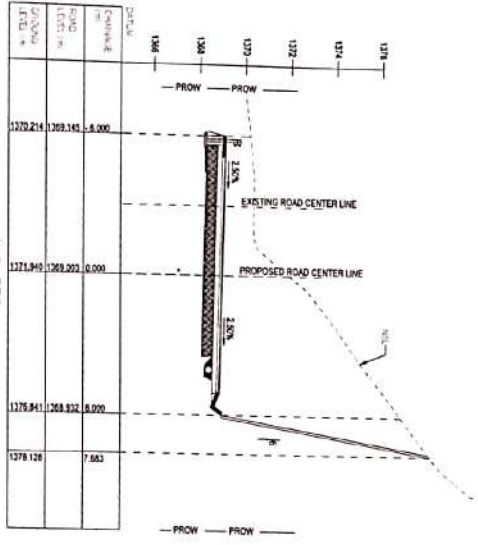


446+675

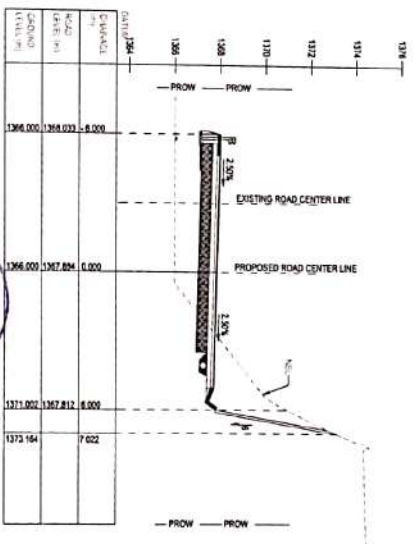


446+700

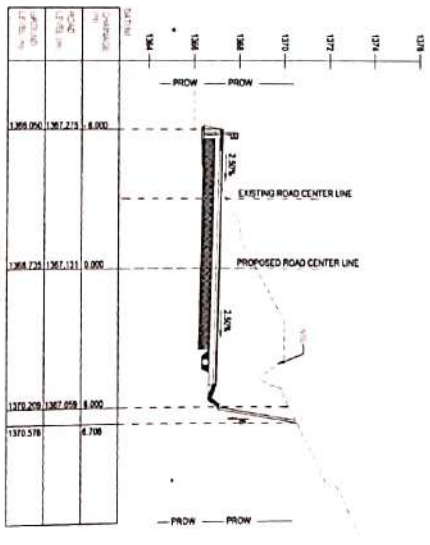
MANA VILLAGE



446+575



446+625



OWNER ENGINEERING



National Highways & Infrastructure Development Corporation Ltd. (NHIDCL)

SAFETY CONSULTANT



MAHARAJA ENGINEERS PVT. LTD. MEPL

EPC CONTRACTOR



S. MANGALAM INFRASTRUCTURE LTD.

PROJECT CONSULTANT



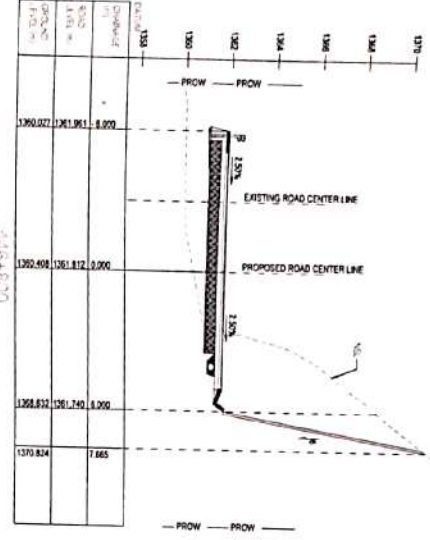
M. S. ROAD DESIGN UNITS PVT. LTD.

PROJECT

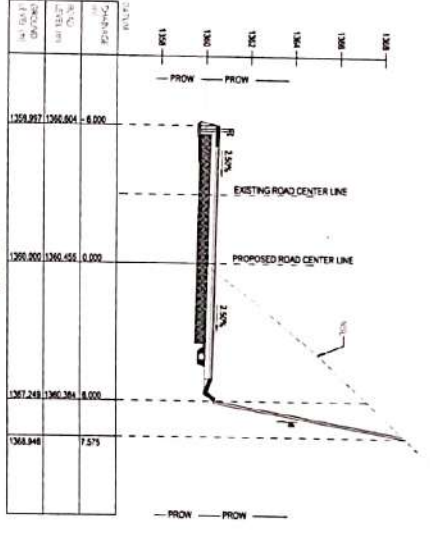
CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 437.825 TO KM 437.775, KM 436.910 TO KM 436.865 AND KM 464.435 TO KM 464.320 OF NH-47 UNDER CHANDHAN PAVAGUJA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PK-48)

REV	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	APPROVED BY	SCALE	TITLE	DRG. NO.	REVISION	DATE
			AS	SK	DK	1:200 (HON)	PROPOSE CROSS SECTION AT INTERVAL OF 25.00M	CPRADOPV150	R-0	OCT 2018
						1:250 (VEN)	446-575 TO 446+700			

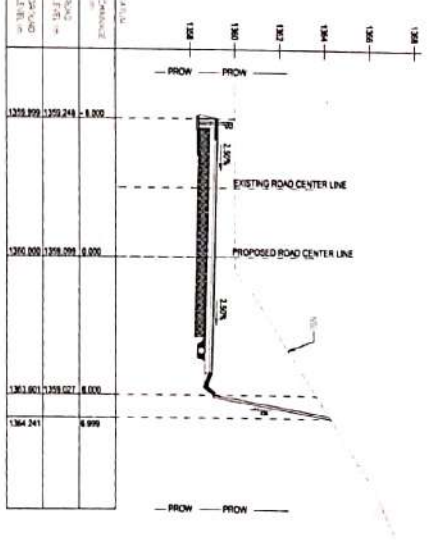
RUDRAPRAYAG



446+600

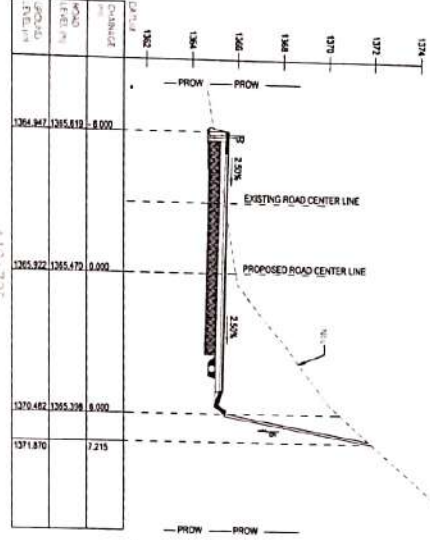


446+825

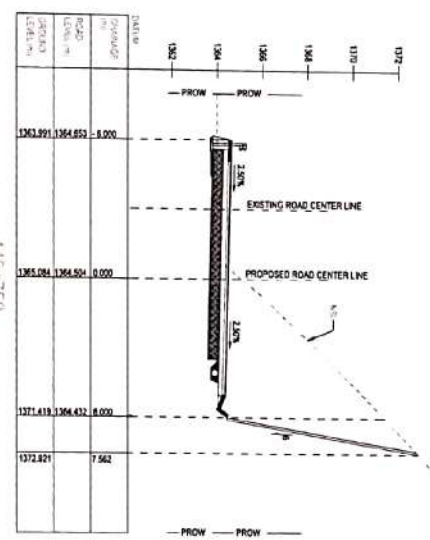


446+850

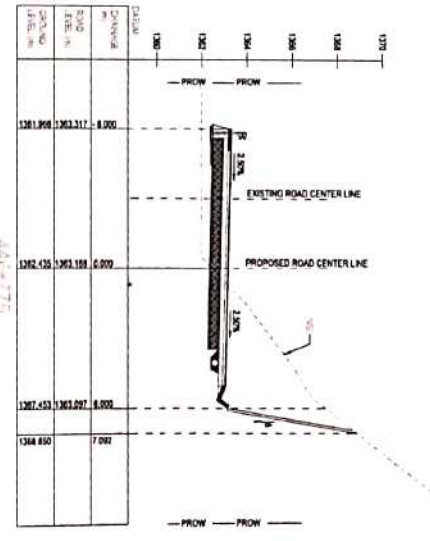
MAANA VILLAGE



446+725



446+750



446+775

OWNER ENGINEERING
National Highways & Infrastructure
Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT
BME
MAHARAJA ENGINEERS
PVT. LTD. INDIA

EPC CONTRACTOR
DEVELOPMENT
NKG INFRASTRUCTURE LTD.

PROJECT CONSULTANT
NKG CONSULTANTS PVT. LTD.
NKG CONSULTANTS PVT. LTD.
NKG CONSULTANTS PVT. LTD.
NKG CONSULTANTS PVT. LTD.

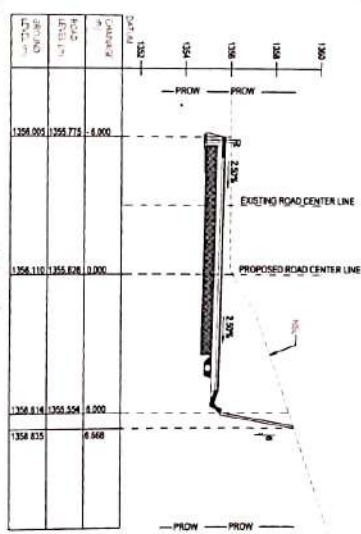
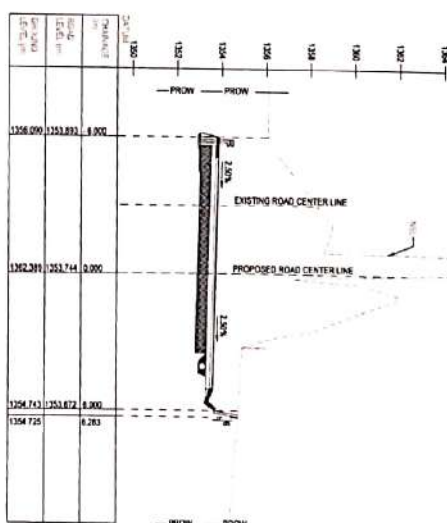
CONSTRUCTION & UPGRADATION OF EXISTING ROAD
TO 2 LANE WITH PAVED SHOULDERS FROM KM
446.000 TO KM 448.000 OF CHANDOLI TO JALPA
(EXCLUDING KM 437.625 TO KM 437.775, KM 438.500 TO
KM 439.475 AND KM 444.425 TO KM 444.525) OF NH-47
UNDER CHANDOLI PARIVAHAN ON EPC BASIS IN THE
STATE OF UTTARANCHAL (PG-48)

REV	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	APPROVED BY	DWG NO	REVISION
			AS	SK	DK	CHD/CHP/151	

TITLE: PROPOSE CROSS SECTION
AT INTERVAL OF 25.00m
446+725 TO 446+850

SCALE: 1:200 (HORIZ)
1:200 (VERT)

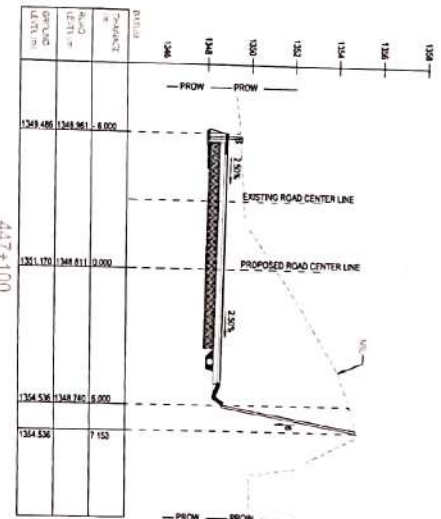
OCT 2018

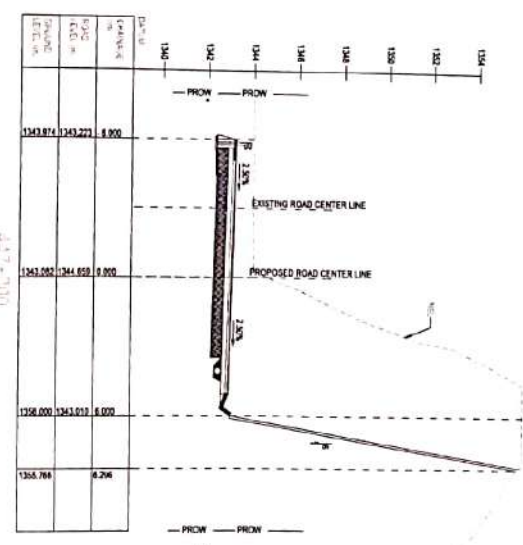
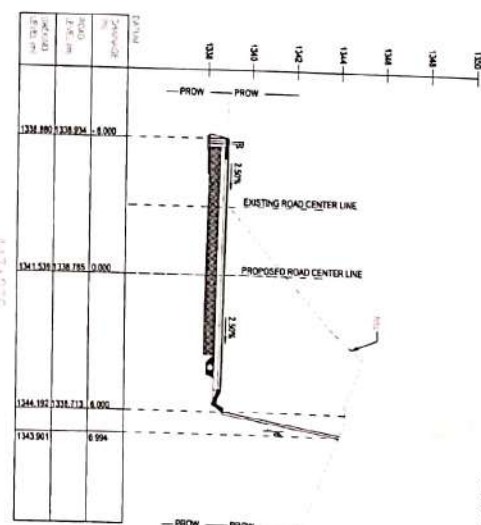


TITLE PROPOSE CROSS SECTION
AT INTERVAL OF 25.00M

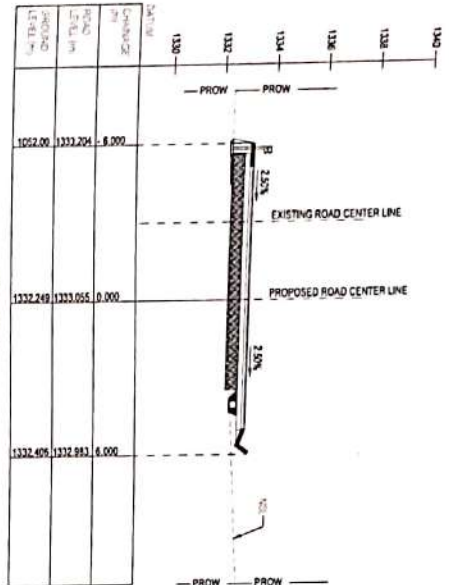
← RUDRAPRAYAG

MAANA VILLAGE →

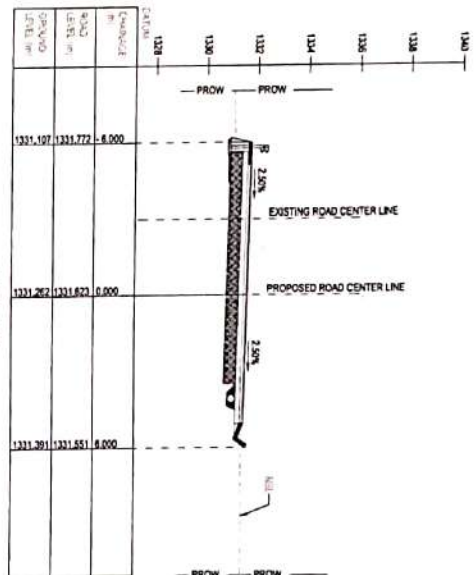




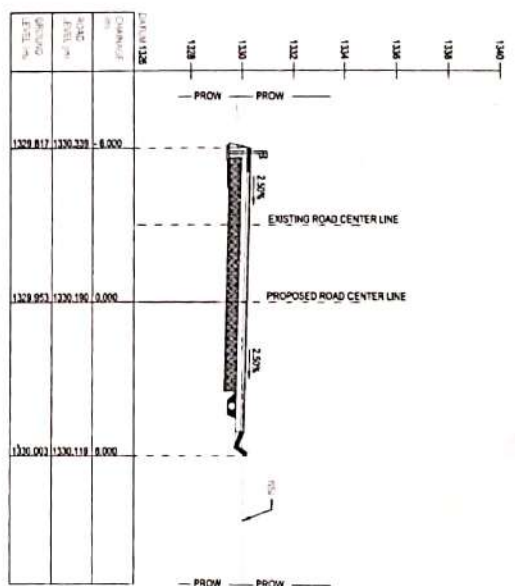
OCT 2011



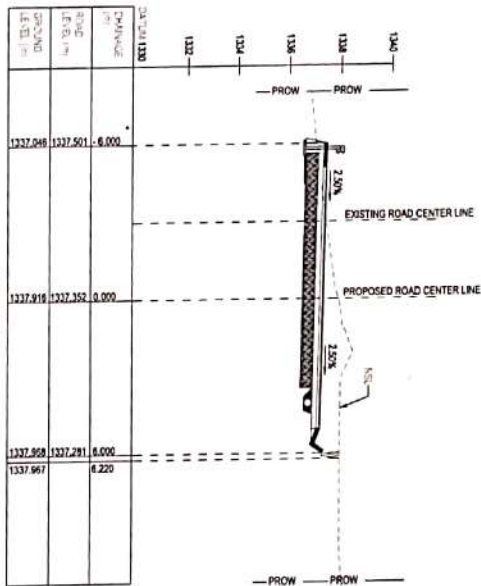
447+375



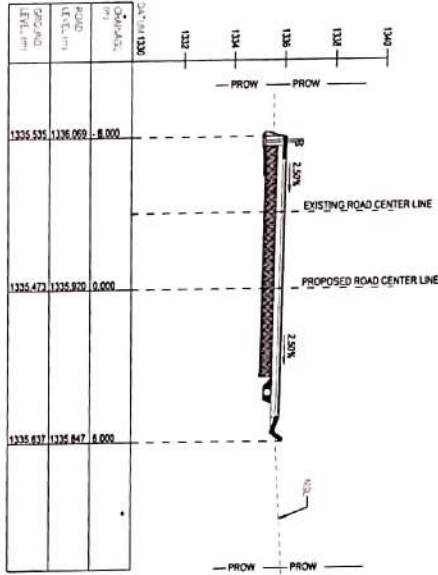
447+400



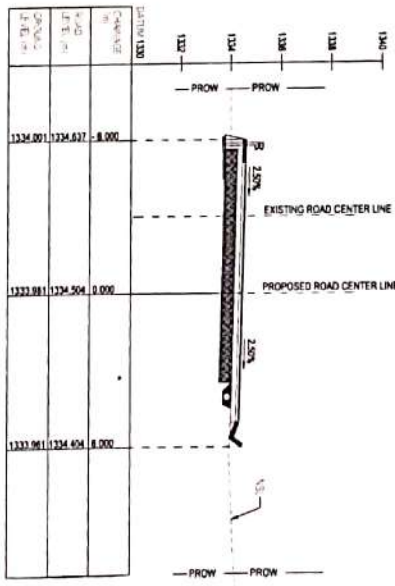
447+425



447+300



447+325



447+350

OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROFESSIONAL CONSULTANT

PROJECT

DRAWN BY

TITLE



CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH SHOULDER FROM PANKAJ TO K.M. 430.000 OF CHANDEL TO PANKAJ EXCLUDING K.M. 427.525 TO K.M. 427.775, K.M. 428.000 TO K.M. 429.475 AND K.M. 424.425 TO K.M. 424.525 OF NH-07 UNDER CHANDHAN PARVATIYA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PG-III)

REV	DATE	DESCRIPTION

DESIGNED BY	SK
APPROVED BY	DK

SCALE	1:2000 (HORN)
DRG NO.	CP/ROAD/PP/155
REVISION	R-0

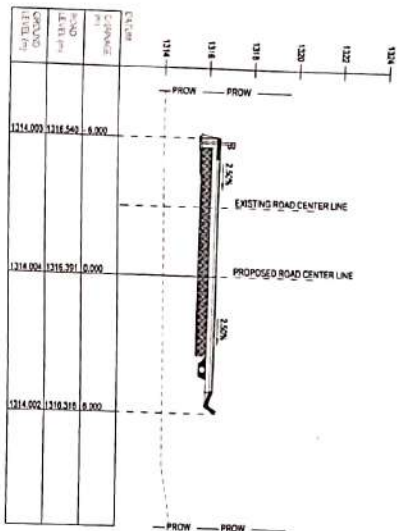


447+450 TO 447+575

8

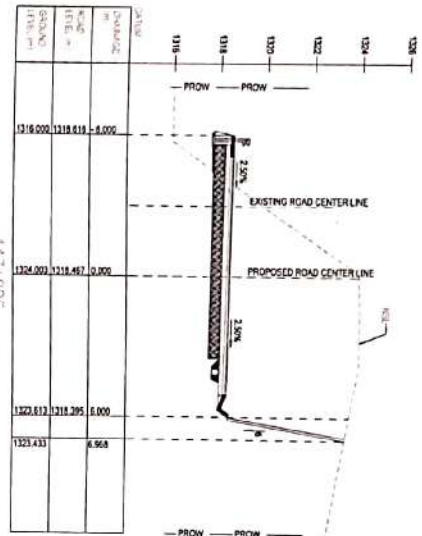
RUDRAPRAYAG

MANA VILLAGE

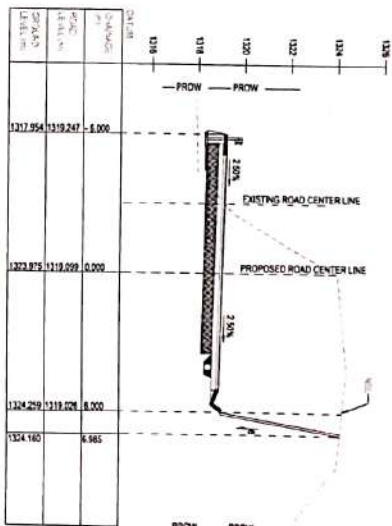


→ RUDRAPRAYAG

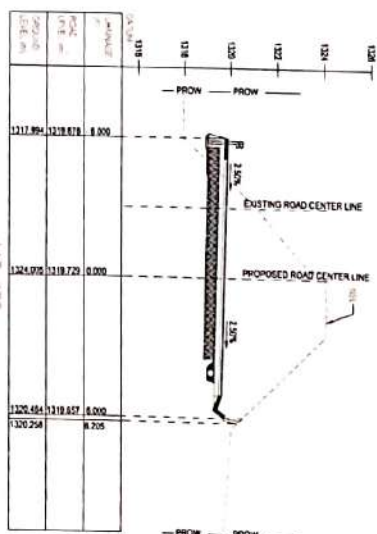
MANA VILLAGE →



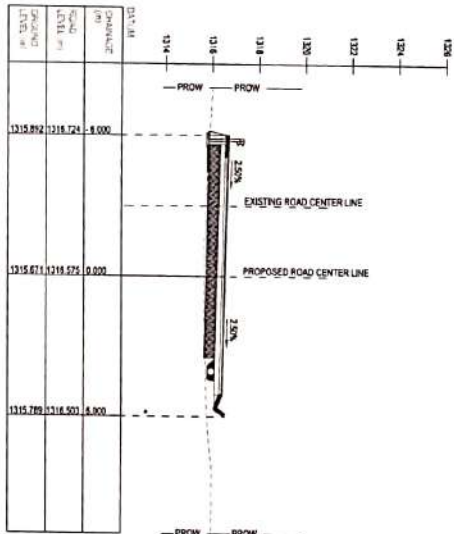
447+825



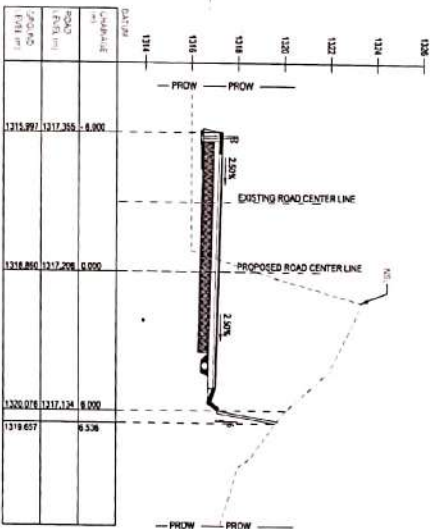
447+850



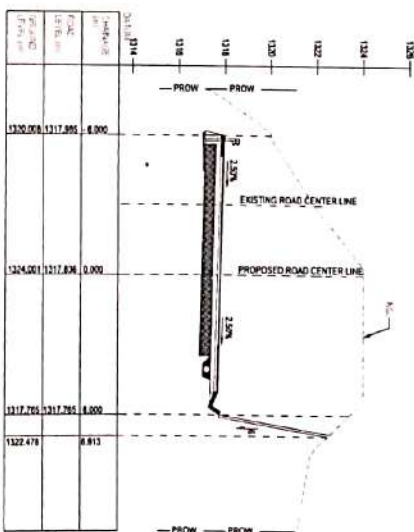
447+875



447+750



447+775



447+900

OWNER ENGINEERING:



National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



MANUWAY ENGINEERS PVT LTD, MPE

EPC CONTRACTOR



S. ANGE INFRASTRUCTURE LTD

PROJECT CONSULTANT



KOC INFRA CONSULTANTS PVT LTD

PROJECT

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 448.000 OF CHANDOLI TO PAUNI (EXCLUDING KM 437.775 TO KM 437.775, KM 438.000 TO KM 438.000, KM 438.000 TO KM 438.000, KM 438.000 TO KM 438.000) UNDER CHANDOLI PARVATI ON EPC BASIS IN THE STATE OF UTTARANCHAL (PG-64)

REV

DATE

DESCRIPTION

SCALE

1:2000 (HOB)

1:200 (VER)

DRAWN BY

AS

DESIGNED BY

SK

APPROVED BY

DK

ORIG. NO

CPRO/04/9/158

REVISION R/O

OCT 2018

TITLE

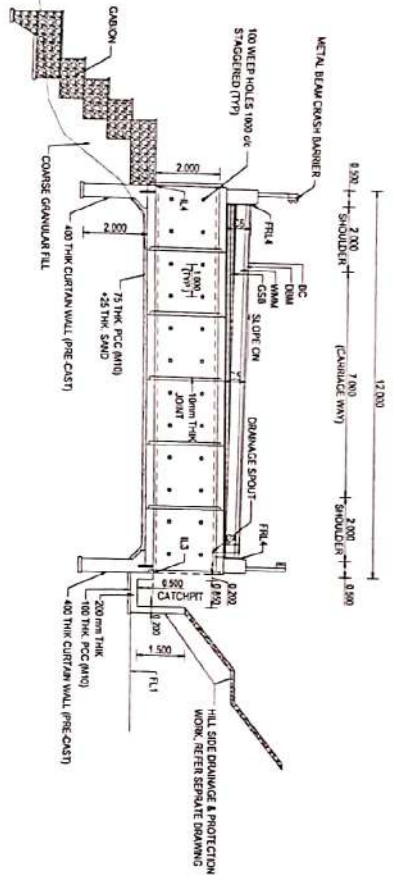
PROPOSE CROSS SECTION

AT INTERVAL OF 25.00M

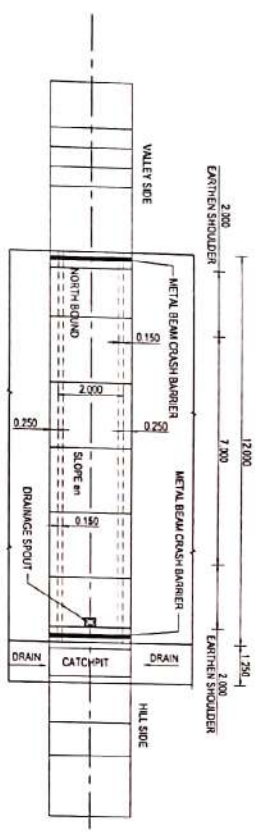
447+750 TO 447+875



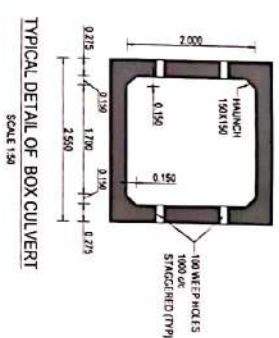
Scanned with OKEN Scanner



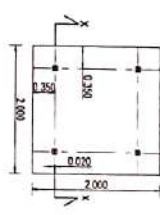
CROSS SECTION OF BOX CULVERT
SCALE 1:100



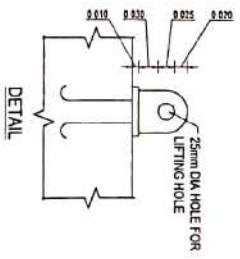
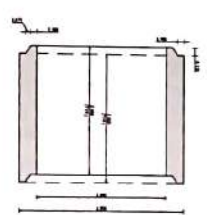
TOP PLAN
SCALE 1:100



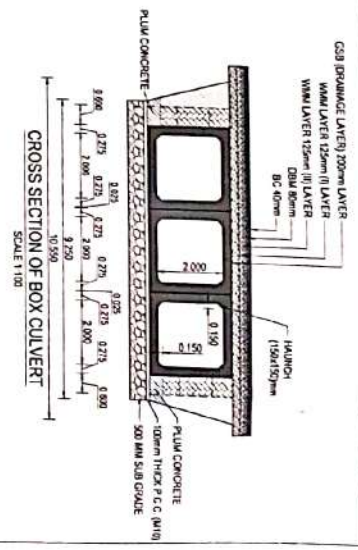
TYPICAL DETAIL OF BOX CULVERT
SCALE 1:50



TYPICAL DETAIL OF BOX CULVERT
SCALE 1:50



DETAIL



CROSS SECTION OF BOX CULVERT
SCALE 1:100



SECTION AT X-X

OWNER ENGINEERING

SAFETY CONSULTANT

DESIGN CONTRACTOR

PROJECT CONSULTANT

PROJECT

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 3-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 480.000 OF CHANQUA TO PANI (EXCLUDING KM 437.423 TO KM 477.423 ON R/SIDE AND KM 434.423 TO KM 477.423 ON L/SIDE) AND CHANQUA TO PANI (EXCLUDING KM 434.423 TO KM 477.423 ON R/SIDE AND KM 434.423 TO KM 477.423 ON L/SIDE) IN THE STATE OF UTTARAKHAND (P.C.-III)

REV

DATE

DESCRIPTION

SCALE

1:100

REVISION R.O

JULY 2018

DRAWN BY

AS

DESIGNED BY

SK

APPROVED BY

DK

DWG NO

CPROAD/CULV02

TITLE

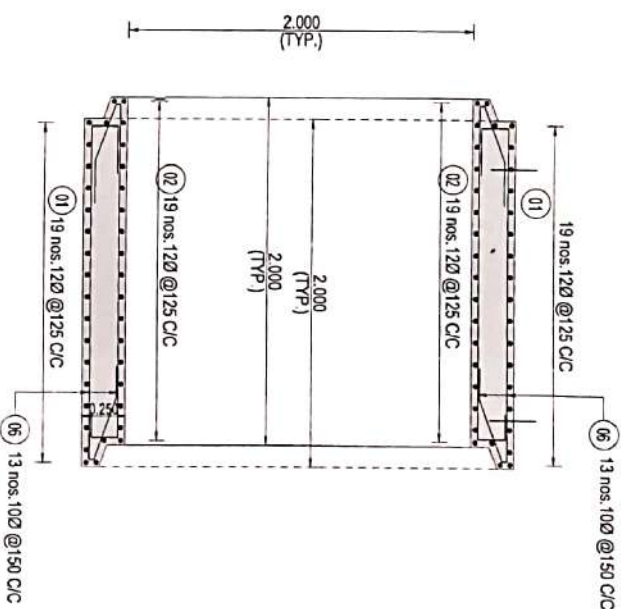
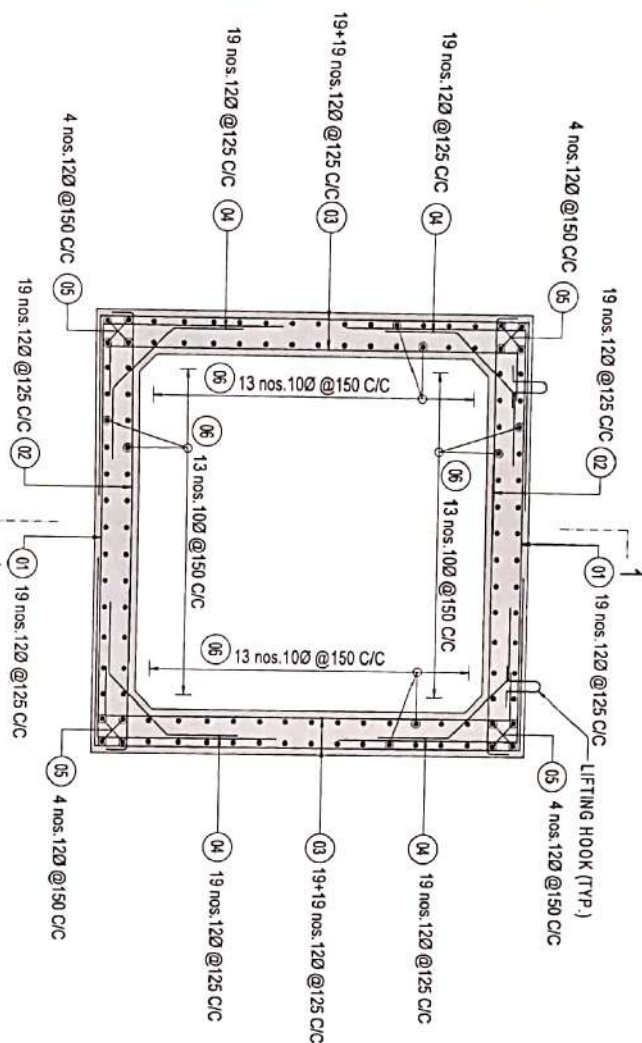
CROSS-SECTION OF BOX CULVERT

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED

(SHOWING REINF. DETAIL)

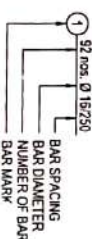
SCALE 120



SECTION 1-1

NOTES

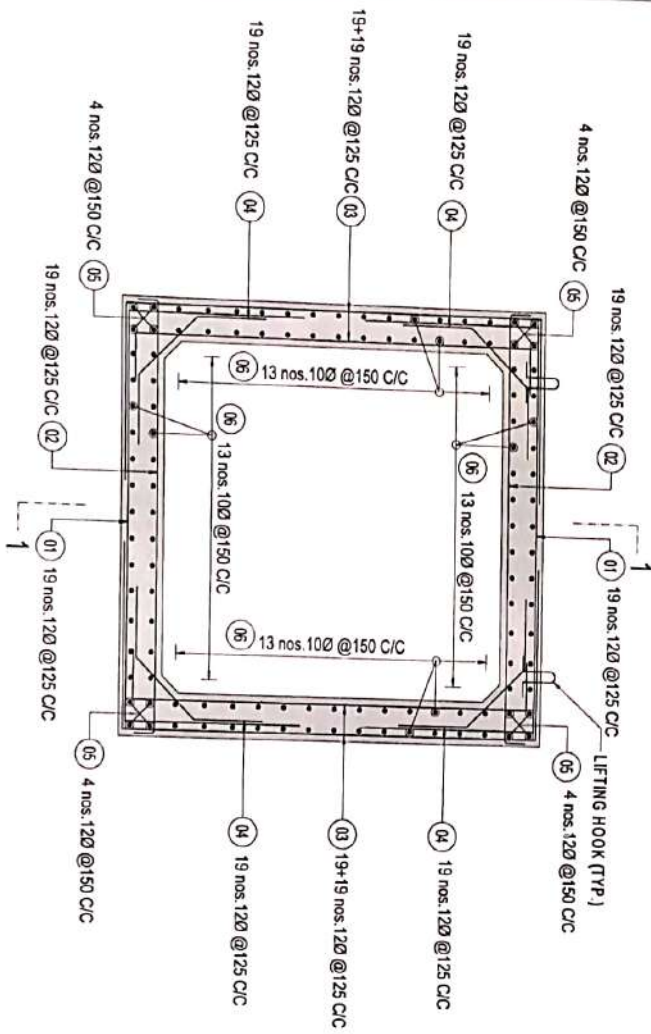
- ## 1 REINFORCEMENT NOTATION



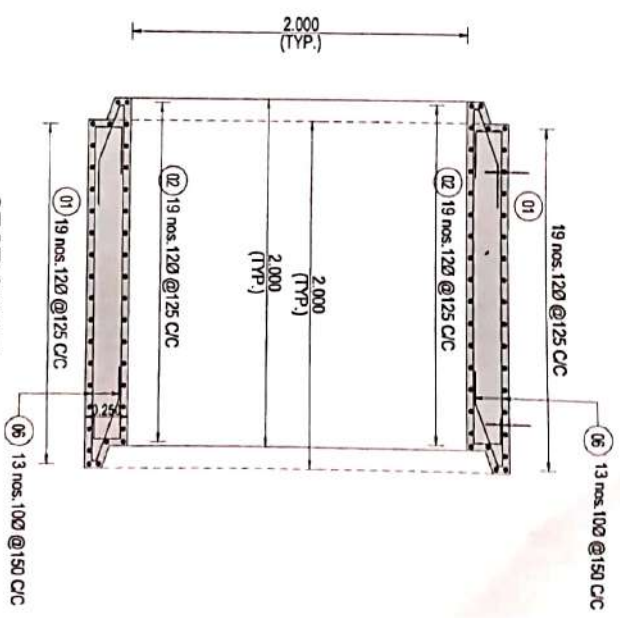
2. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS & DIMENSIONS FOR REINFORCEMENT ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
3. REINFORCEMENT SHALL COMPRISE OF FE 500 GRADE DEFORMED BARS, CONFORMING TO IS 1786.
4. CONCRETE COVER UNLESS NOTED OTHERWISE, THE MINIMUM CLEAR DISTANCE BETWEEN THE REINFORCEMENT AND THE SURFACE OF THE CONCRETE SHALL BE AS FOLLOWS:

25-50MM
5. SPACING OF REINFORCEMENT BARS SHALL BE STAGGERED AS PER RELEVANT CLAUSE OF IS 1786.
6. SPACING OF REINFORCEMENT BARS SHOWN ON THE DRAWINGS IS INDICATIVE ONLY. ACTUAL SPACING LOCATIONS SHALL SUIT CONCRETE POURING LIFT SCHEDULE.
7. DEVELOPMENT LENGTH SHALL BE 50 TIMES BAR DIAMETER.

DESCRIPTION	MAIN STEEL
AS PER MORTH	150 250c/c or 8045 mm ²
AS PER DESIGN	120 125 c/c or 9045 mm ²



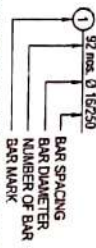
TYP. CROSS SECTION OF CULVERT DUCT
(SHOWING REINF. DETAIL)
SCALE: 1:20



SECTION 1-1

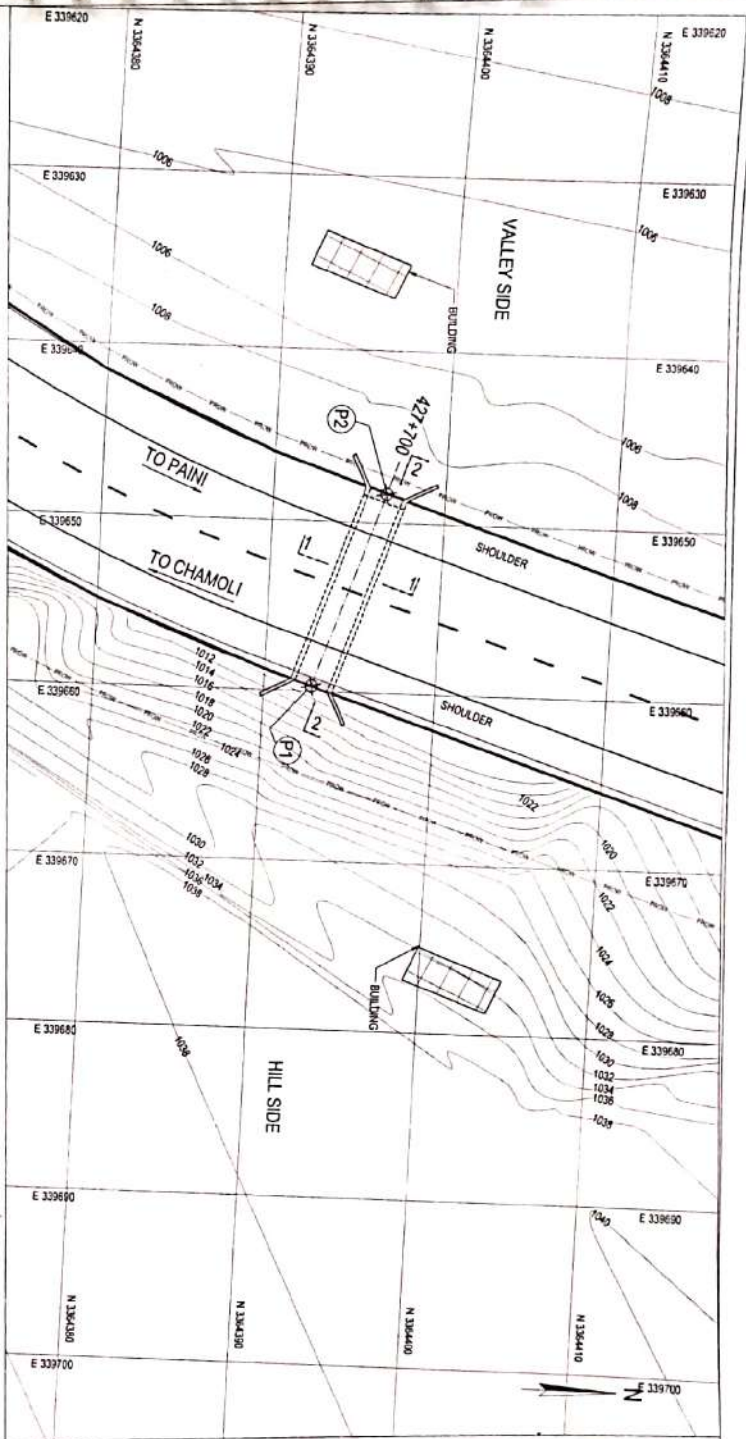
DESCRIPTION	MAIN STEEL
AS PER NORTH	160 250c/c or 8045 mm ²
AS PER DESIGN	120 125 c/c or 9045 mm ²

- NOTES:
1. REINFORCEMENT NOTATION
 2. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS & DIMENSIONS FOR REINFORCEMENT ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 3. REINFORCEMENT SHALL COMPRISE OF FE 500 GRADE DEFORMED BARS, CONFORMING TO IS. 1786.
 4. CONCRETE COVER UNLESS NOTED OTHERWISE, THE MINIMUM CLEAR DISTANCE BETWEEN THE REINFORCEMENT AND THE SURFACE OF THE CONCRETE SHALL BE AS FOLLOWS:
25-50MM
 5. SPACING OF REINFORCEMENT BARS SHALL BE STAGGERED AS PER RELEVANT CLAUSE OF IS. 456.
 6. SPLICE LOCATIONS SHALL SUIT CONCRETE POURING LIFT SCHEDULE.
 7. DEVELOPMENT LENGTH LD SHALL BE 50 TIMES BAR DIAMETER.

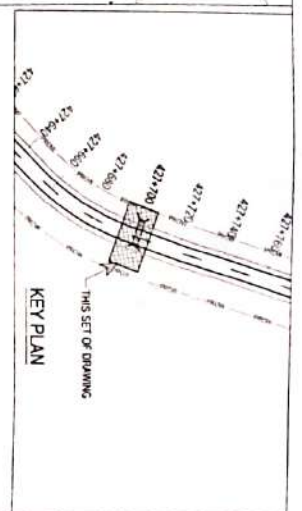


OWNER ENGINEERING: AMDA National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT: PME MANOMAY ENGINEERS PVT LTD MGR		EPC CONTRACTOR: SK KSG INFRASTRUCTURE LTD		PROJECT CONSULTANT: SK KSG INFRASTRUCTURE LTD		PROJECT: CONSTRUCTION & Upgradation of existing ROAD TO 3-LANE WITH PAVED SHOULDERS TO A KM EXCLUDING KM 437.825 TO KM 437.775, KM 438.800 TO KM 439.475 AND KM 434.425 TO KM 434.525) OF NH-47 UNDER CHANDHAN PARVATHA ON EPC BASIS IN THE STATE OF UTTARAKHAND (Pkg-III)		REV		DATE		DESCRIPTION		SCALE		1:20		REVISION R-0		JAN 2019																	
DRAWN BY: BK										DESIGNED BY: SK										APPROVED BY: DK										TITLE: BOX CULVERT REINFORCEMENT BAR BENDING SCHEDULE									

SUMMARY OF BAR BENDING SCHEDULE (STEEL GRADE Fe500)			
BAR DIAMETERS		UNIT	
BAR NO.	BAR DIAMETER (mm)	WEIGHT PER DIAMETER (kg)	WEIGHT
1	10	0.617	0.617
2	12	0.888	0.888
3	16	1.58	1.58
4	20	2.47	2.47
5	25	3.96	3.96
6	32	6.31	6.31
7	40	10.00	10.00
8	45	13.96	13.96
9	50	19.64	19.64
10	55	26.87	26.87
11	60	35.24	35.24
12	65	44.83	44.83
13	70	55.69	55.69
14	75	67.85	67.85
15	80	81.10	81.10
16	85	95.53	95.53
17	90	111.13	111.13
18	95	127.96	127.96
19	100	146.00	146.00
20	105	165.23	165.23
21	110	185.64	185.64
22	115	207.23	207.23
23	120	229.99	229.99
24	125	253.89	253.89
25	130	278.92	278.92
26	135	305.07	305.07
27	140	332.34	332.34
28	145	360.73	360.73
29	150	390.24	390.24
30	155	420.87	420.87
31	160	452.61	452.61
32	165	485.46	485.46
33	170	519.41	519.41
34	175	554.46	554.46
35	180	590.61	590.61
36	185	627.86	627.86
37	190	666.21	666.21
38	195	705.66	705.66
39	200	746.21	746.21
40	205	787.86	787.86
41	210	830.61	830.61
42	215	874.46	874.46
43	220	919.41	919.41
44	225	965.46	965.46
45	230	1012.61	1012.61
46	235	1060.86	1060.86
47	240	1110.21	1110.21
48	245	1160.66	1160.66
49	250	1212.21	1212.21
50	255	1264.86	1264.86
51	260	1318.61	1318.61
52	265	1373.46	1373.46
53	270	1429.41	1429.41
54	275	1486.46	1486.46
55	280	1544.61	1544.61
56	285	1603.86	1603.86
57	290	1664.21	1664.21
58	295	1725.66	1725.66
59	300	1788.21	1788.21
60	305	1851.86	1851.86
61	310	1916.61	1916.61
62	315	1982.46	1982.46
63	320	2049.41	2049.41
64	325	2117.46	2117.46
65	330	2186.61	2186.61
66	335	2256.86	2256.86
67	340	2328.21	2328.21
68	345	2400.66	2400.66
69	350	2474.21	2474.21
70	355	2548.86	2548.86
71	360	2624.61	2624.61
72	365	2701.46	2701.46
73	370	2779.41	2779.41
74	375	2858.46	2858.46
75	380	2938.61	2938.61
76	385	3019.86	3019.86
77	390	3102.21	3102.21
78	395	3185.66	3185.66
79	400	3270.21	3270.21
80	405	3355.86	3355.86
81	410	3442.61	3442.61
82	415	3530.46	3530.46
83	420	3619.41	3619.41
84	425	3709.46	3709.46
85	430	3800.61	3800.61
86	435	3892.86	3892.86
87	440	3986.21	3986.21
88	445	4080.66	4080.66
89	450	4176.21	4176.21
90	455	4272.86	4272.86
91	460	4370.61	4370.61
92	465	4469.46	4469.46
93	470	4569.41	4569.41
94	475	4670.46	4670.46
95	480	4772.61	4772.61
96	485	4875.86	4875.86
97	490	4980.21	4980.21
98	495	5085.66	5085.66
99	500	5192.21	5192.21
100	505	5300.86	5300.86
101	510	5410.61	5410.61
102	515	5521.46	5521.46
103	520	5633.41	5633.41
104	525	5746.46	5746.46
105	530	5860.61	5860.61
106	535	5975.86	5975.86
107	540	6092.21	6092.21
108	545	6209.66	6209.66
109	550	6328.21	6328.21
110	555	6447.86	6447.86
111	560	6568.61	6568.61
112	565	6690.46	6690.46
113	570	6813.41	6813.41
114	575	6937.46	6937.46
115	580	7062.61	7062.61
116	585	7188.86	7188.86
117	590	7316.21	7316.21
118	595	7444.66	7444.66
119	600	7574.21	7574.21
120	605	7704.86	7704.86
121	610	7836.61	7836.61
122	615	7969.46	7969.46
123	620	8103.41	8103.41
124	625	8238.46	8238.46
125	630	8374.61	8374.61
126	635	8511.86	8511.86
127	640	8650.21	8650.21
128	645	8789.66	8789.66
129	650	8930.21	8930.21
130	655	9071.86	9071.86
131	660	9214.61	9214.61
132	665	9358.46	9358.46
133	670	9503.41	9503.41
134	675	9649.46	9649.46
135	680	9796.61	9796.61
136	685	9944.86	9944.86
137	690	10094.21	10094.21
138	695	10244.66	10244.66
139	700	10396.21	10396.21
140	705	10548.86	10548.86
141	710	10702.61	10702.61
142	715	10857.46	10857.46
143	720	11013.41	11013.41
144	725	11170.46	11170.46
145	730	11328.61	11328.61
146	735	11487.86	11487.86
147	740	11648.21	11648.21
148	745	11809.66	11809.66
149	750	11972.21	11972.21
150	755	12135.86	12135.86
151	760	12299.61	12299.61
152	765	12464.46	12464.46
153	770	12630.41	12630.41
154	775	12797.46	12797.46
155	780	12965.61	12965.61
156	785	13134.86	13134.86
157	790	13305.21	13305.21
158	795	13476.66	13476.66
159	800	13649.21	13649.21
160	805	13822.86	13822.86
161	810	13997.61	13997.61
162	815	14173.46	14173.46
163	820	14350.41	14350.41
164	825	14528.46	14528.46
165	830	14707.61	14707.61
166	835	14887.86	14887.86
167	840	15069.21	15069.21
168	845	15251.66	15251.66
169	850	15435.21	15435.21
170	855	15619.86	15619.86
171	860	15805.61	15805.61
172	865	15992.46	15992.46
173	870	16180.41	16180.41
174	875	16369.46	16369.46
175	880	16559.61	16559.61
176	885	16750.86	16750.86
177	890	16943.21	16943.21
178	895	17136.66	17136.66
179	900	17331.21	17331.21
180	905	17526.86	17526.86
181	910	17723.61	17723.61
182	915	17921.46	17921.46
183	920	18120.41	18120.41
184	925	18320.46	18320.46
185	930	18521.61	18521.61
186	935	18723.86	18723.86
187	940	18927.21	18927.21
188	945	19131.66	19131.66
189	950	19337.21	19337.21
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191	960	19751.61	19751.61
192	965	19960.46	19960.46
193	970	20170.41	20170.41
194	975	20381.46	20381.46
195	980	20593.61	20593.61
196	985	20806.86	20806.86
197	990	21021.21	21021.21
198	995	21236.66	21236.66
199	1000	21453.21	21453.21
200	1005	21670.86	21670.86
201	1010	21889.61	21889.61
202	1015	22109.46	22109.46
203	1020	22330.41	22330.41
204	1025	22552.46	22552.46
205	1030	22775.61	22775.61
206	1035	22999.86	22999.86
207	1040	23225.21	23225.21
208	1045	23451.66	23451.66
209	1050	23679.21	23679.21
210	1055	23907.86	23907.86
211	1060	24137.61	24137.61
212	1065	24368.46	24368.46
213	1070	24599.41	24599.41
214	1075	24831.46	24831.46
215	1080	25064.61	25064.61
216	1085	25298.86	25298.86
217	1090	25534.21	25534.21
218	1095	25770.66	25770.66
219	1100	26008.21	26008.21
220	1105	26246.86	26246.86
221	1110	26486.61	26486.61
222	1115	26727.46	26727.46
223	1120	26969.41	26969.41
224	1125	27212.46	27212.46
225	1130	27456.61	27456.61
226	1135	27701.86	27701.86
227	1140	27948.21	27948.21
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229	1150	28444.21	28444.21
230	1155	28693.86	28693.86
231	1160	28944.61	28944.61
232	1165	29196.46	29196.46
233	1170	29449.41	29449.41
234	1175	29703.46	29703.46
235	1180	29958.61	29958.61
236	1185	30214.86	30214.86
237	1190	30472.21	30472.21
238	1195	30730.66	30730.66
239	1200	30990.21	30990.21
240	1205	31250.86	31250.86
241	1210	31512.61	31512.61
242	1215	31775.46	31775.46
243	1220	32039.41	32039.41
244	1225	32304.46	32304.46
245	1230	32570.61	32570.61
246	1235	32837.86	32837.86
247	1240	33106.21	33106.21
248	1245	33375.66	33375.66
249	1250	33646.21	33646.21
250	1255	33917.86	33917.86
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252	1265	34464.46	34464.46
253	1270	34739.41	34739.41
254	1275	35015.46	35015.46
255	1280	35292.61	35292.61
256	1285	35570.86	35570.86
257	1290	35850.21	35850.21
258	1295	36130.66	36130.66
259	1300	36412.21	36412.21
260	1305	36694.86	36694.86
261	1310	36978.61	36978.61
262	1315	37263.46	37263.46
263	1320	37549.41	37549.41
264	1325	37836.	



PLAN AT CH = 428+566
SCALE 1:200

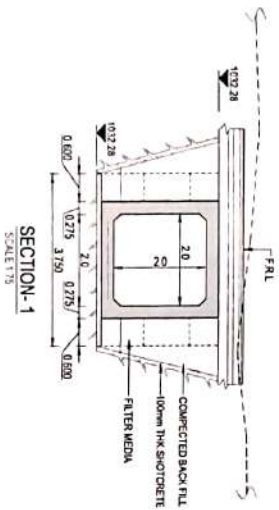


CULVERT COORDINATES	
POINT	EASTING NORTHING
P1	336430 336427
P2	336432 336437

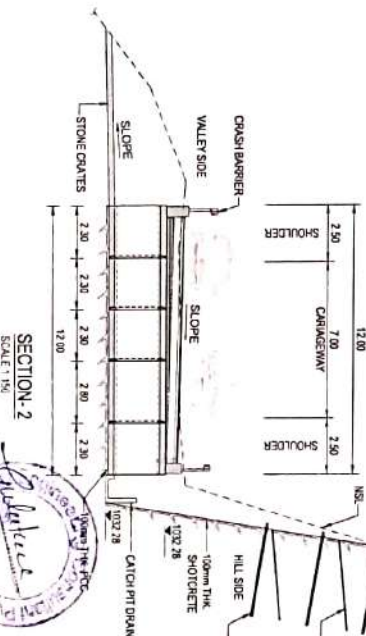
LEGEND
CULVERT
ROAD MEDIAN
ROAD LINE

NOTES

1. ALL DIMENSIONS ARE IN METRE. UNLESS OTHERWISE SPECIFIED.
2. NO DIMENSION SHALL BE MEASURED. ONLY WRITTEN DIMENSIONS ARE TO BE TAKEN AS CORRECT.
3. THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOWED DETERMINED BY THE SURVEYOR'S FIELD WORK.
4. FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK SEPARATE DRAWING.



SECTION-1
SCALE 1:50



SECTION-2
SCALE 1:50

OWNER ENGINEERING
National Highways & Infrastructure
Development Corporation Ltd (NHIDCL)

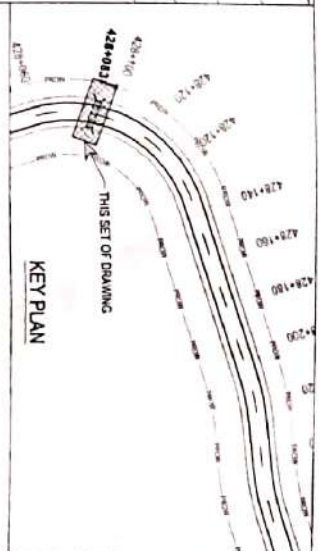
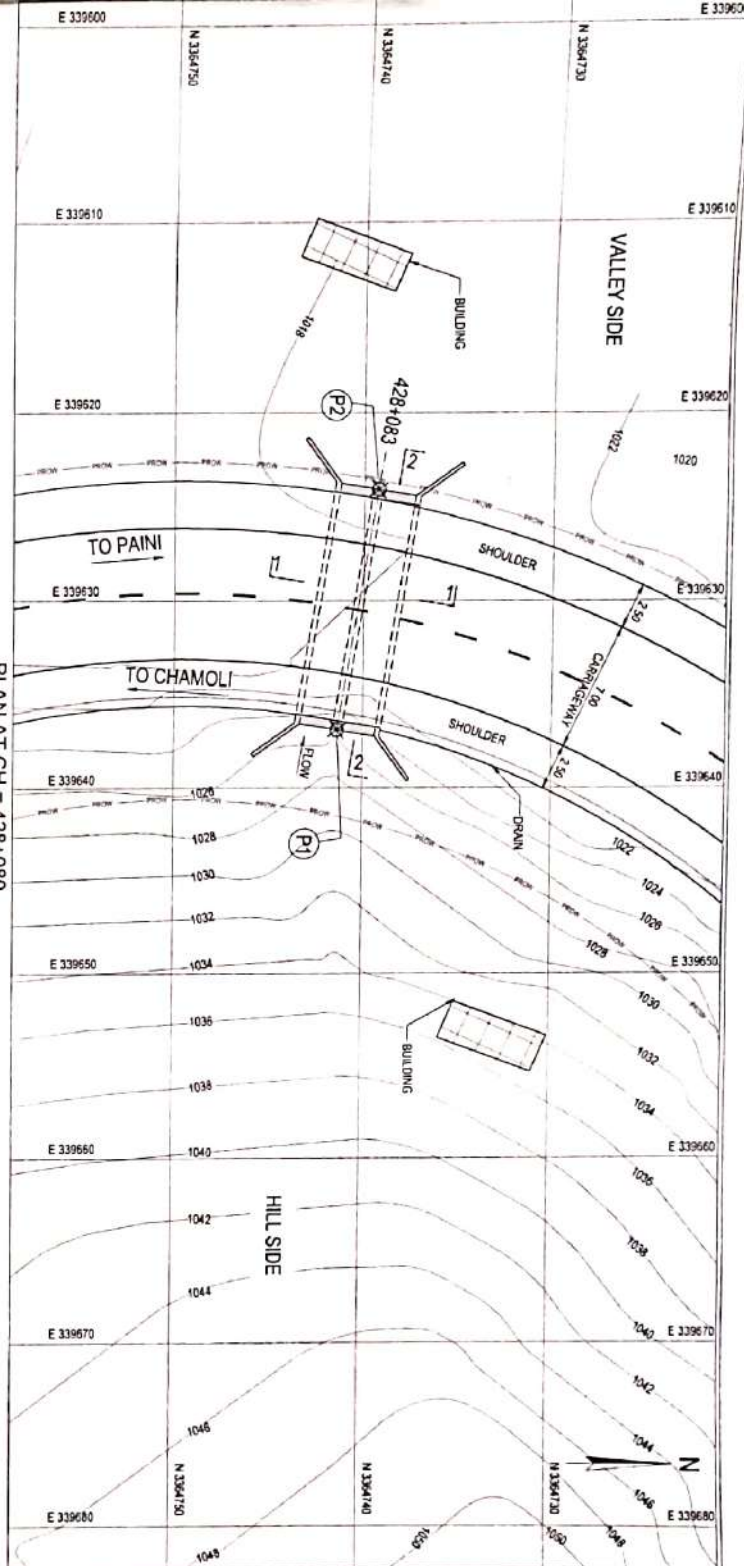
SAFETY CONSULTANT
MAMONAY
PVT. LTD.

EPC CONTRACTOR
DESIGN
S. KUMAR
NKG INFRASTRUCTURE

PROJECT
CONSTRUCTION & UPGRADE OF EXISTING ROAD TO
3.5m WITH PAVED SHOULDERS FROM KM 428.00 TO KM
428.50 OF CHAMOLI TO PAINI (EXCLUDING KM 427.50 TO
KM 427.75, KM 428.00 TO KM 428.475 AND KM 428.425 TO
KM 428.525) OF NH-47 UNDER CHANDRAVAN PARTOJANA ON
EPC BASIS IN THE STATE OF UTTARANCHAL (PG-III)

REV	DATE	DESCRIPTION	SCALE	1:75, 1:150	REVISION R.O	NOV 2018
1						
2						
3						
4						
5						
6						
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8						
9						
10						





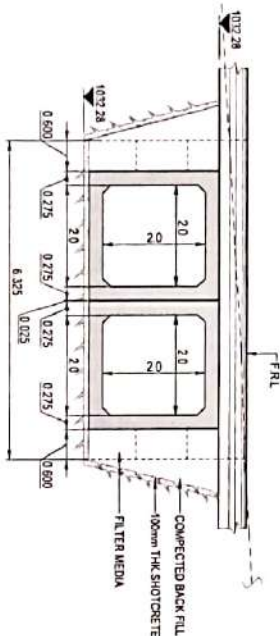
CULVERT COORDINATES		
POINT	EASTING	NORTHING
P1	339636.90	33964758.62
P2	339624.07	33964769.14

LEGEND		
	CULVERT	
	ROAD MEDIAN	
	ROCK LINE	

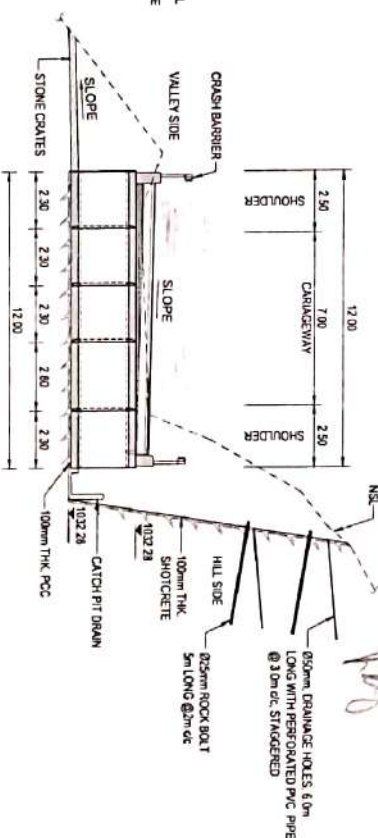
NOTES:-

1. ALL DIMENSIONS ARE IN METRE, UNLESS OTHERWISE SPECIFIED
2. NO DIMENSION SHALL BE MEASURED ONLY WRITTEN DIMENSIONS ARE TO BE TAKEN AS CORRECT
3. THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOWED DETERMINED BY ENGINEER-IN-CHARGE/SITE ENGINEER
4. FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK SEPARATE DRAWING

SECTION-1
SCALE 1:75



SECTION-2
SCALE 1:50



OWNER ENGINEERING

SAFETY CONSULTANT

EPC CONTRACTOR

PROJECT CONSULTANT

PROJECT

CONSTRUCTION & UPGRADE OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 448.000 OF CHAMOLI TO PAINI EXCLUDING KM 437.625 TO KM 441.775, KM 438.500 TO KM 439.475 AND KM 444.425 ON EPC BASIS IN THE STATE OF UTTARAKHAND (PRG-011)

DRAWN BY

JK

TITLE CHAMOLI TO PAINI ROAD CULVERT GENERAL ARRANGEMENT AT CHANAGE: 428+080

NOV-2018

MAHARAJA NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD (NHIDCL)

MAHARAJA PVT. LTD. MEPL

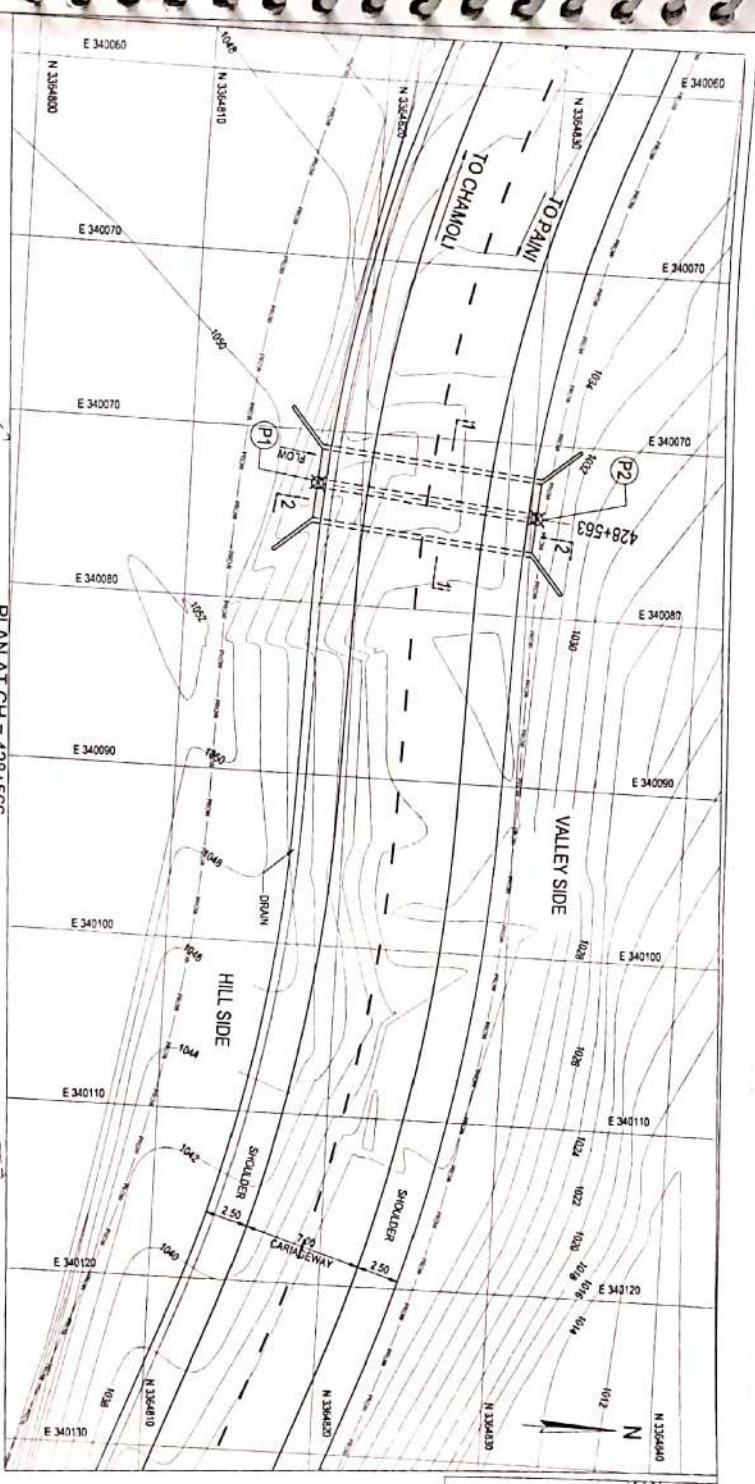
DESIGN & CONSTRUCTION OF INFRASTRUCTURE

PROJECT CONSULTANT
301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

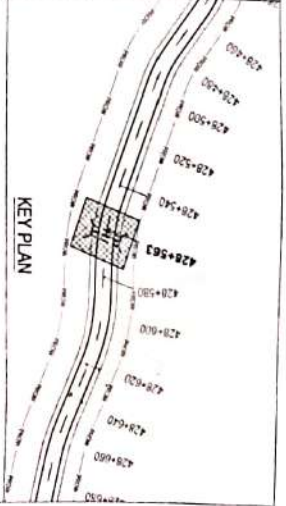
REV	DATE	DESCRIPTION

DESIGNED BY	SK
APPROVED BY	DK
SCALE	1:200 1:100

ORG NO	265 C/ROAD/GA/016
REVISION	R-0



PLAN AT CH = 428+566
SCALE 1:200



CULVERT COORDINATES		
POINT	EASTING	NORTHING
P1	340078	339417
P2	340118	339430

- LEGEND
- CULVERT
 - ROAD MEDIAN
 - ROAD LINE

- NOTES
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
 - NO DIMENSIONS SHALL BE MEASURED ON UNFINISHED DIMENSIONS
 - THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOWED DETERMINED BY ENGINEER/CHARGE SITE ENGINEER
 - FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK SEPARATE DRAWING

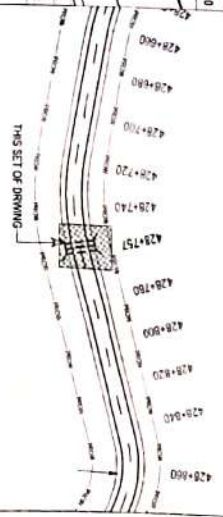


SECTION-1
SCALE 1:100

SECTION-2
SCALE 1:100



OWNER ENGINEERING National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT MAMUWAY PVT. LTD.		ERC CONTRACTOR NKS INFRASTRUCTURE		PROJECT CONSULTANT PROJECT CONSULTANTS		PROJECT CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.00 TO KM 468.00 OF CHAMOLI TO PAINI (EXCLUDING KM 437.42 TO KM 437.715, KM 438.00 TO KM 439.415 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHANDMAN PASTORUNA ON EPC BASIS IN THE STATE OF UTTARANCHAL (PNC-III)	
REV	DATE	DESCRIPTION	SCALE	1:100.1:200	REVISION	R-0	AUG-2018		
DRAWN BY: JK DESIGNED BY: SK APPROVED BY: DK		TITLE: CHAMOLI TO PAINI ROAD CULVERT ARRANGEMENT AT CHAUNGE: 428+563 DRG NO: 252-CHROAD-CAC18							



SETOUT POINT AT CH-428+755			
POINT	EASTING	NORTHING	DESCRIPTION
P1	346728.64	336403.19	INLET
P2	346728.64	336403.19	OUTLET

KEY PLAN

SETOUT POINT AT CH-428+75.5

LEGEND

CULVERT

ROAD MEDIA

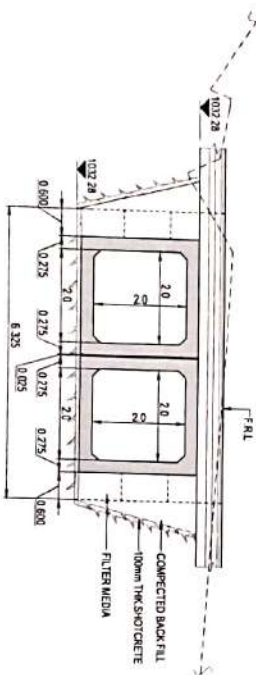
ROCK LINE

NOTES

- 1 ALL DIMENSIONS ARE IN METRE UNLESS OTHERWISE SPECIFIED
- 2 NO DIMENSION SHALL BE NEGASSED, ONLY WRITTEN DIMENSIONS ARE TO BE TAKEN AS CORRECT
- 3 THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOW / DETERMINED BY ENGINEER-IN-CHARGE/SITE ENGINEER
- 4 FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK SEPARATE DRAWING

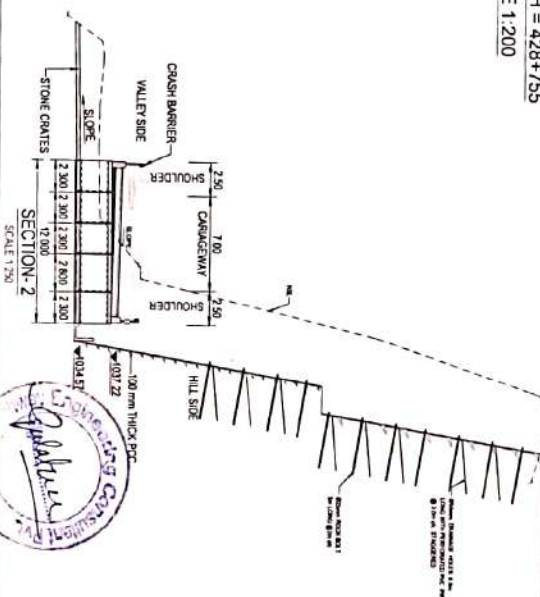
PLAN AT CH = 428+755

SCALE 1:200



SECTION-1

SCALE 1.75

SECTION-2
SCALE 1/2"=1'-0"

SCALE 1250

OWNER ENGINEERING



National Highways & Infrastructure
Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



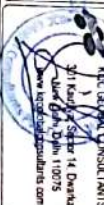
MANDIAR
PUTTID. MEPI

EPC CONTRACTOR



NRG INFRASTRUCTURE

PROOF CONSULTANT



www.kapitelinsights.com

PROJECT

CONSTRUCTION & UPGRADEATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.00 TO KM 468.00 OF CHAMOLU TO PANI (EXCLUDING KM 437.625 TO KM 437.775, KM 456.000 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHARDHAM PARYOJANA ON EPC BASICS IN THE STATE OF UTTARAKHAND (PKG-III)

[illegible]

SCALE	1"=100.1' 200'	REVISION	R.D	JULY 2018
APPROVED BY	DK	DRG NO	CPROAD.CA.019	
DESIGNED BY	SK	TITLE CHAMOUNI TO PAIN ROAD CULVERT ARRANGEMENT AT CHAMNAE 428/757		
DRAWN BY	JK			



SE10UT POINT AT CH-429+0935	EASTING	NORTHING	DESC

ROAD MEDIA

ROCK LINE

- 1 ALL DIMENSIONS ARE IN METRE. UNLESS OTHERWISE SPECIFIED
- 2 NO DIMENSIONS SHALL BE MEASURED. ONLY WRITTEN DIMENSIONS
- 3 ARE TO BE TAKEN AS CORRECT
- 4 THE ACTUAL CL VERTICAL LOCATION SHOULD BE FOLLOWED DETERMINED BY ENGINEER IN CHARGE SITE ENGINEER
- 5 FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK SEPARATE DRAWING



PESICAP
NK6

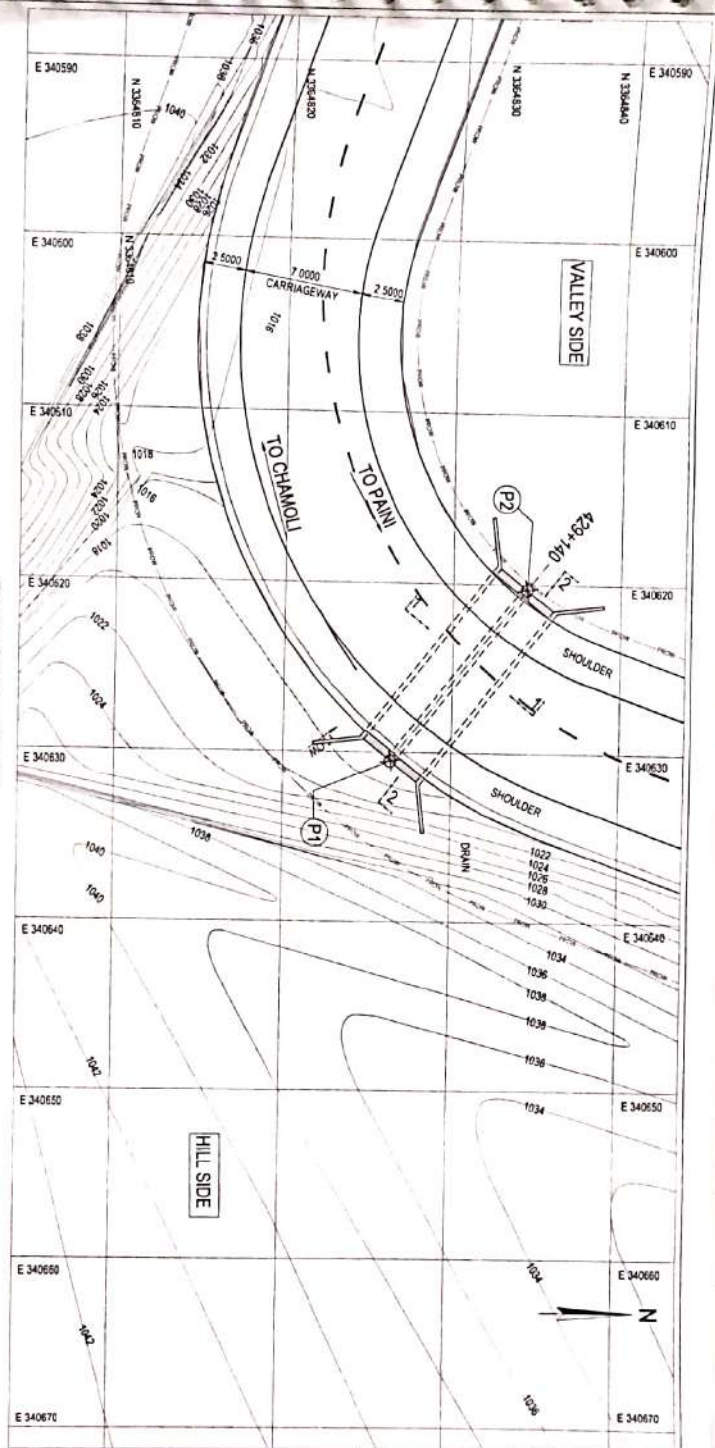
MOCKLEBURN CONSULTANTS
301 Keatinge, Sector 14, Dwarka
New Delhi 110075

CONSTRUCTION & UPGRADE OF EXISTING ROAD 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO 468.000 OF CHAMOL-TO PAINI (EXCLUDING KM 437.6 KM 437.775, KM 458.900 TO KM 459.475 AND KM 464.4

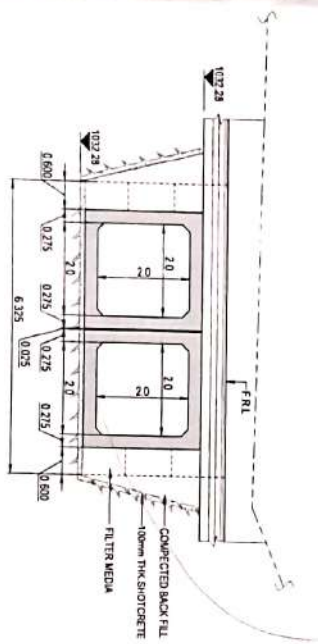
DESIGNED BY	SK
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TITLE CHAMOLI TO PAINI ROAD
CULVERT ARRANGEMENT AT

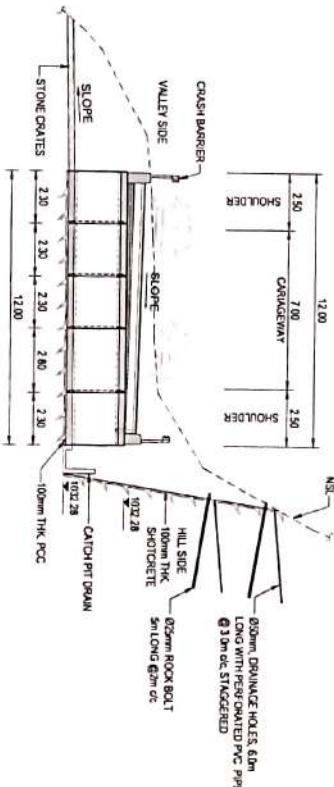
CHAINAGE - 429+0.71



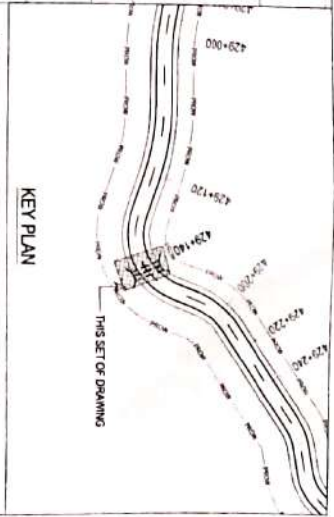
PLAN AT CH = 429+165
SCALE 1:200



SECTION-1
SCALE 1:75



SECTION-2
SCALE 1:50



KEY PLAN

CULVERT COORDINATES	
POINT	DESCRIPTION
P1	340630 330415.34 INLET
P2	340630 330427.40 OUTLET

LEGEND	
	CULVERT
	ROAD MEDIAN
	ROCK LINE

- NOTES :-
1. ALL DIMENSIONS ARE IN METRE UNLESS OTHERWISE SPECIFIED
 2. NO DIMENSION SHALL BE MEASURED ONLY WRITTEN DIMENSIONS ARE TO BE TAKEN AS CORRECT
 3. THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOWED / DETERMINED BY ENGINEER ON SITE
 4. THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOWED / DETERMINED BY ENGINEER ON SITE

OWNER ENGINEERING National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT MAMUNAV PVT LTD MEL		EPC CONTRACTOR DESA INFRASTRUCTURE		PROJECT CONSULTANT DESA INFRASTRUCTURE					
PROJECT CONSTRUCTION & IMPROVEMENT OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 429.000 TO KM 468.000 OF CHAMOLU TO PANI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.500 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHANDHAN PARTOJANA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PG-III)		REV <table border="1"> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>		DATE	DESCRIPTION			DRAWN BY JK		TITLE CHAMOLU TO PANI ROAD CULVERT ARRANGEMENT AT CHAINAGE 429+140	
DATE	DESCRIPTION										
DESIGNED BY SK		APPROVED BY DK		DWG NO CPMOAG0207		REVISION R.0					
SCALE 1:100 1:200		REVISION R.0		JULY 2018							



CULVERT COORDINATES			
POINT	EASTING	NORTHING	DESCRIPTION
P1	340722.71	1364083.81	INLET
P2	340715.63	1364095.50	OUTLET

KEY PLAN

CULVERT COORDINATES

LEGEND

CULVERT

ROAD MEDIAN

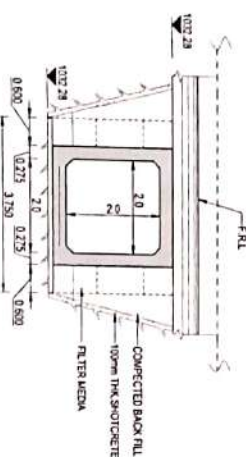
ROCK LINE

NOTES :-

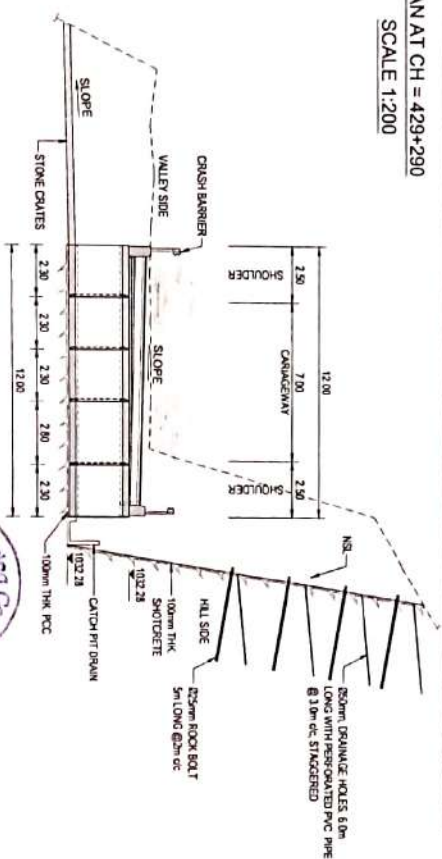
NOTES :-

1. ALL DIMENSIONS ARE IN METRE UNLESS OTHERWISE SPECIFIED
2. NO DIMENSION SHALL BE MEASURED ON A WRITTEN DIMENSIONS ARE TO BE TAKEN AS CORRECT
3. THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOW DETERMINED BY ENGINEER IN CHARGE SITE ENGINEER
4. FOR SUPPORT SYSTEM A SLOPE PROTECTION WORK SEPARATE DRAWING

PLAN AT CH = 429+290
SCALE 1:200



SECTION-1
SCALE 1:75



SECTION-2
SCALE 1:150

OWNER ENGINEERING



National Highways & Infrastructure
Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT



MANONIA
PVT. LTD. MEERUT

EPC CONTRACTOR



NRG INFRASTRUCTURE

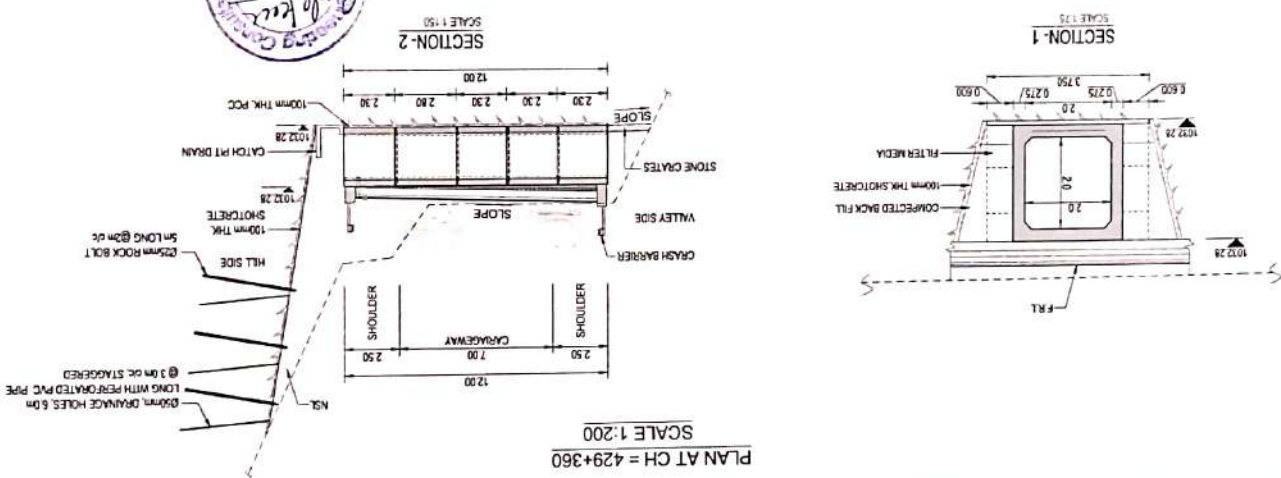
PROOF CONSULTANT



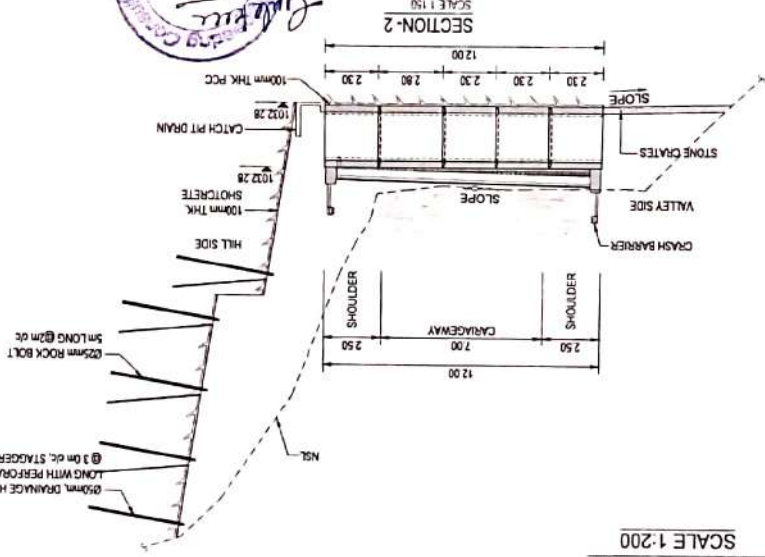
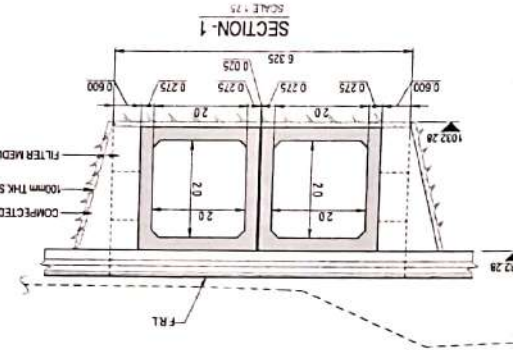
PROJECT:

CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH SHOULDER FROM KM 430.00 TO KM 468.008 OF CHAYOLI TO PAINI (EXCLUDING KM 437.825 TO KM 437.775, KM 458.000 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHADDHAM PARITODHA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-III)

REV	DATE	DESCRIPTION	SCALE	REVISION	DATE
			1:40, 1:200	R-0	AUG-2018
		DESIGNED BY	SK		
		APPROVED BY	DK		
				DWG NO	262 CPMOADA/GA/C22
				TITLE	CHAMPOO TO PAINT ROAD CULVERT ARRANGEMENT AT CHAMPOO-429+285
				DRAWN BY	JK



ENGINEERING		SAFETY CONSULTANT		EPC CONTRACTOR		PROF CONSULTANT		PROJECT	
 M. S. KUMAR MANOMAY PVT. LTD. PVT. LTD.		 NKG INFRASTRUCTURE S. KUNAL S. KUNAL		 NKG INFRASTRUCTURE S. KUNAL S. KUNAL		 NKG INFRASTRUCTURE S. KUNAL S. KUNAL		CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 430.000 TO 440.000 OF CHAMOLI TO PAINI (EXCLUDING KM 437.425 TO KM 437.775, KM 438.900 TO KM 439.475 AND KM 444.425 TO KM 444.525) OF NH-47 UNDER CHANDHAM PARYADHAN ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-III)	
REV	DATE	DESCRIPTION	SCALE	1:100	1:200	APPROVED BY	DK	DESIGNED BY	SK
DRAWN BY		JK	TITLE		CHAMOLI TO PAINI ROAD CULVERT ARRANGEMENT AT CHAINAGE: 429+440				
REVISION		R-0	AUG 2018						



NOTES:-

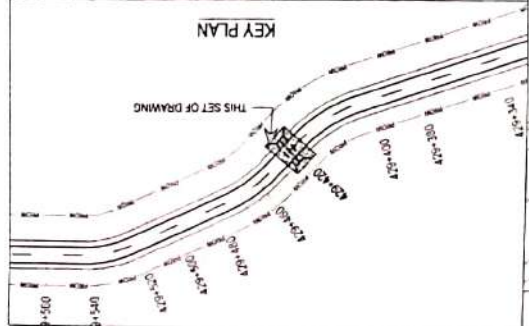
- ALL DIMENSIONS ARE IN METRE. UNLESS OTHERWISE SPECIFIED
- NO DIMENSION SHALL BE MEASURED ONLY WRITTEN DIMENSIONS
- ARE TO BE TAKEN AS CORRECT
- THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOW / DETERMINED
- BY ENGINEER IN CHARGE / SITE ENGINEER
- FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK SEPARATE
- DRAWING

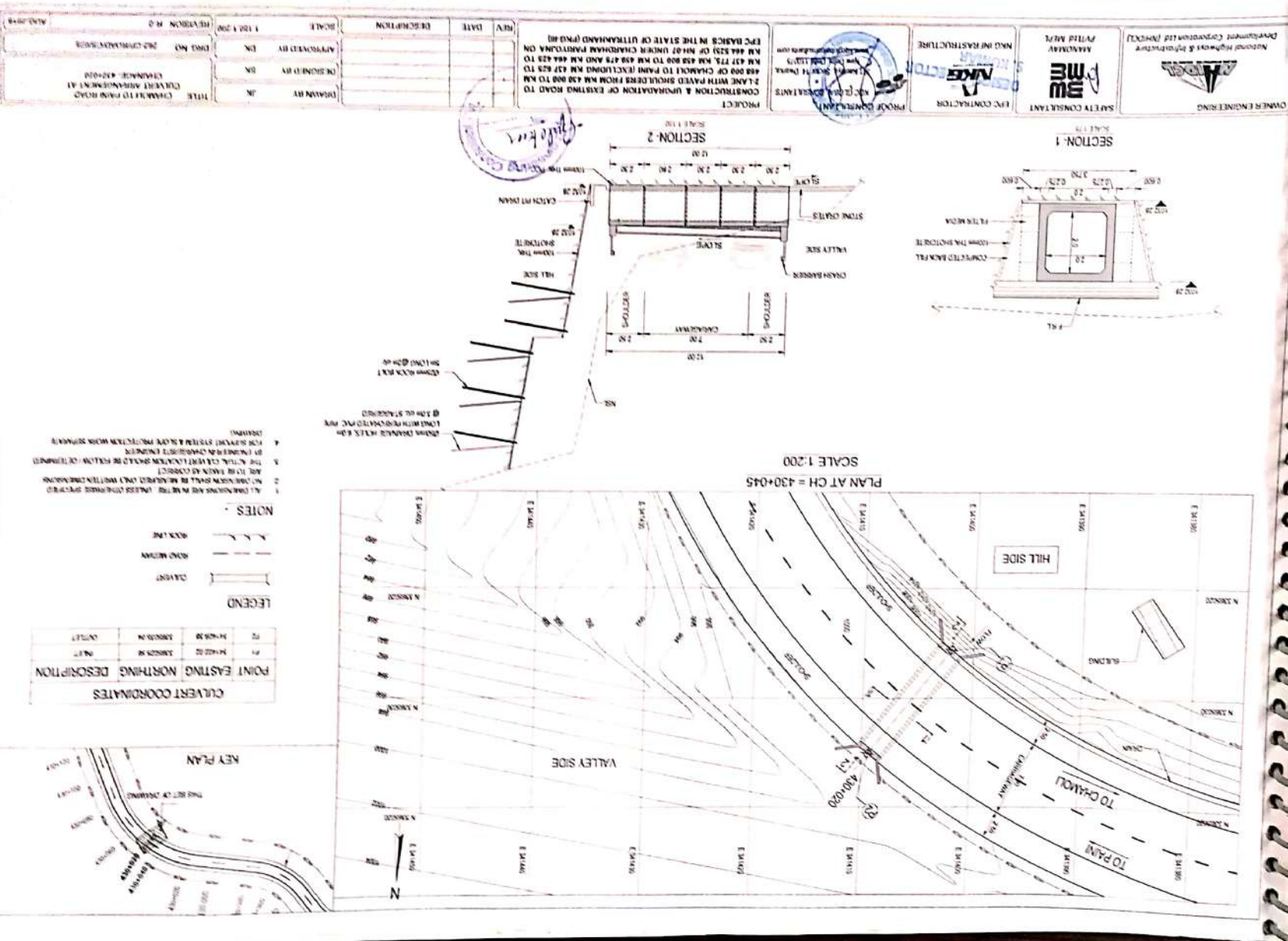
LEGEND

CULVERT	ROAD MEDIAN	ROCK LINE
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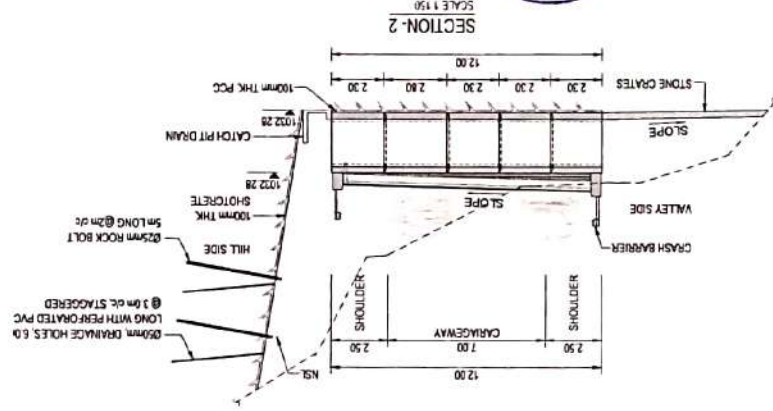
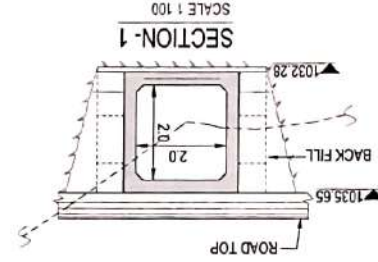
CULVERT COORDINATES

POINT	EASTING	NORTHING	DESCRIPTION
P1	340856.51	336495.79	INLET
P2	340865.94	336496.59	OUTLET

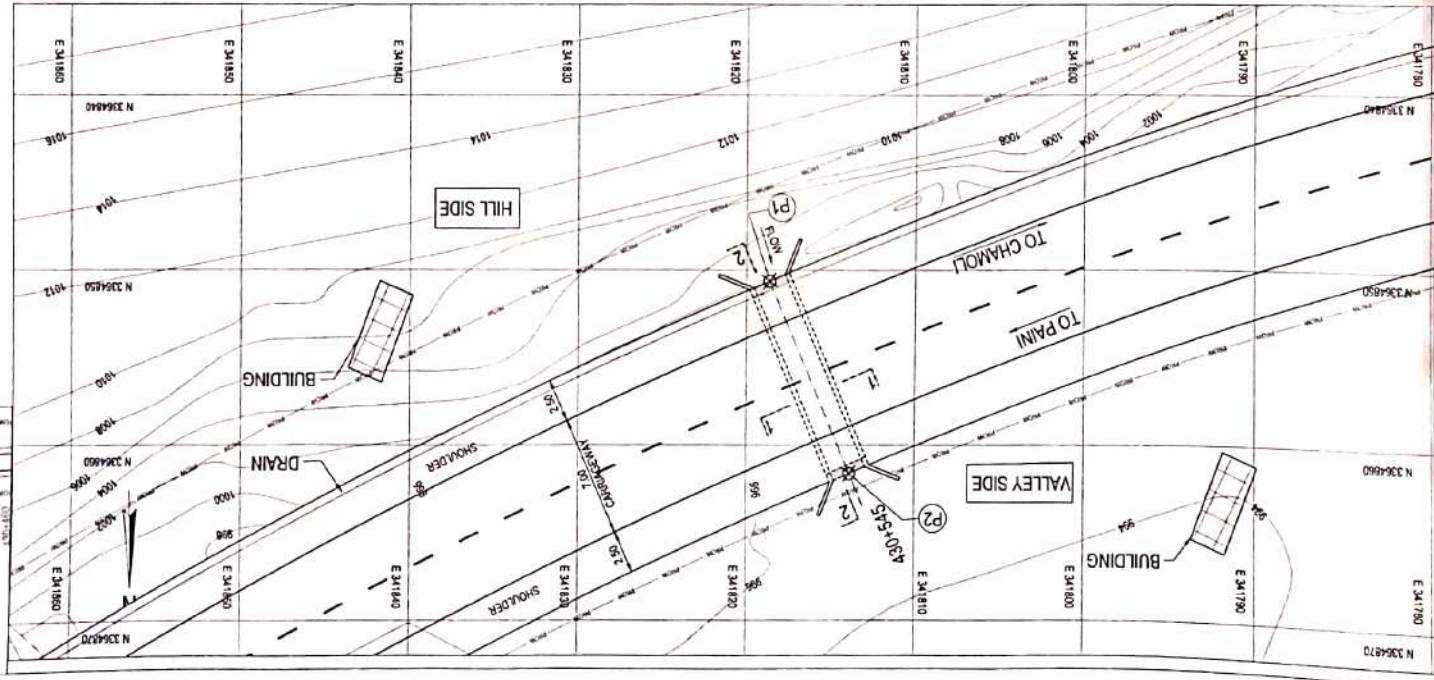




OWNER ENGINEERING		SAFETY CONSULTANT		EPC CONTRACTOR		PROOF CONSULTANT	
National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		MANOMAY S. KUMAR		NKG INFRASTRUCTURE		NKG GLOBAL CONSULTANTS	
PROJECT		EPC BASICS IN THE STATE OF UTTARAKHAND (PKG-III)		Kilometer 430+567 of NH-07 UNDER CHAMOLIA PARITY ON		Kilometer 430+567 of NH-07 UNDER CHAMOLIA PARITY ON	
DRAWN BY		DESIGNED BY		APPROVED BY		SCALE	
JK		SK		DK		1:100 / 1:200	
TITLE		CHAMOLI TO PAINI ROAD		CULVERT ARRANGEMENT AT		CHAMOLIA-430+545	
REVISION R-0		DRG NO		262 CH/ROAD/CS/027		AUG-2018	

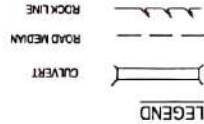


PLAN AT CH = 430+567
SCALE 1:200



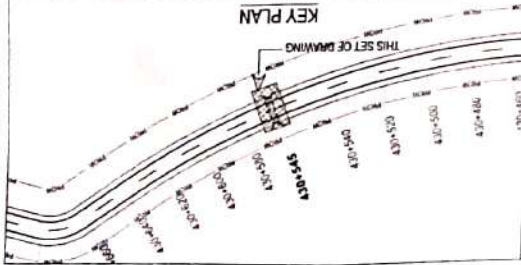
CULVERT COORDINATES

POINT	EASTING	NORTHING	DESCRIPTION
P1	341818.65	3364850.63	INLET
P2	341813.87	3364861.64	OUTLET

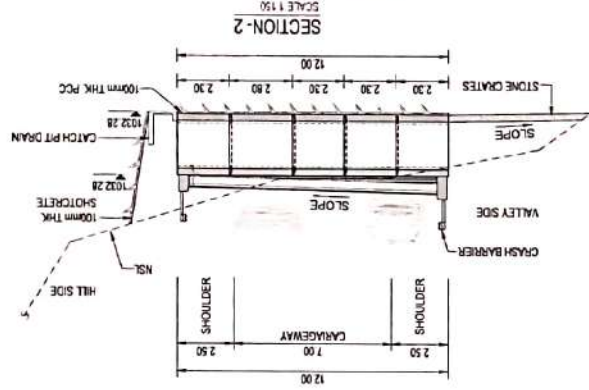
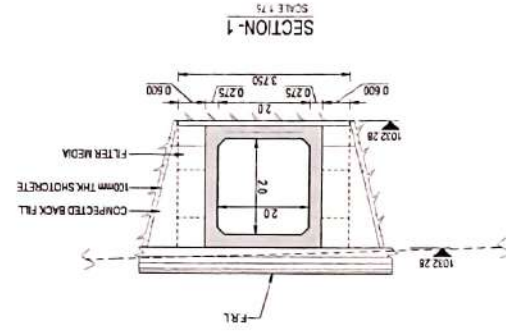


NOTES :-

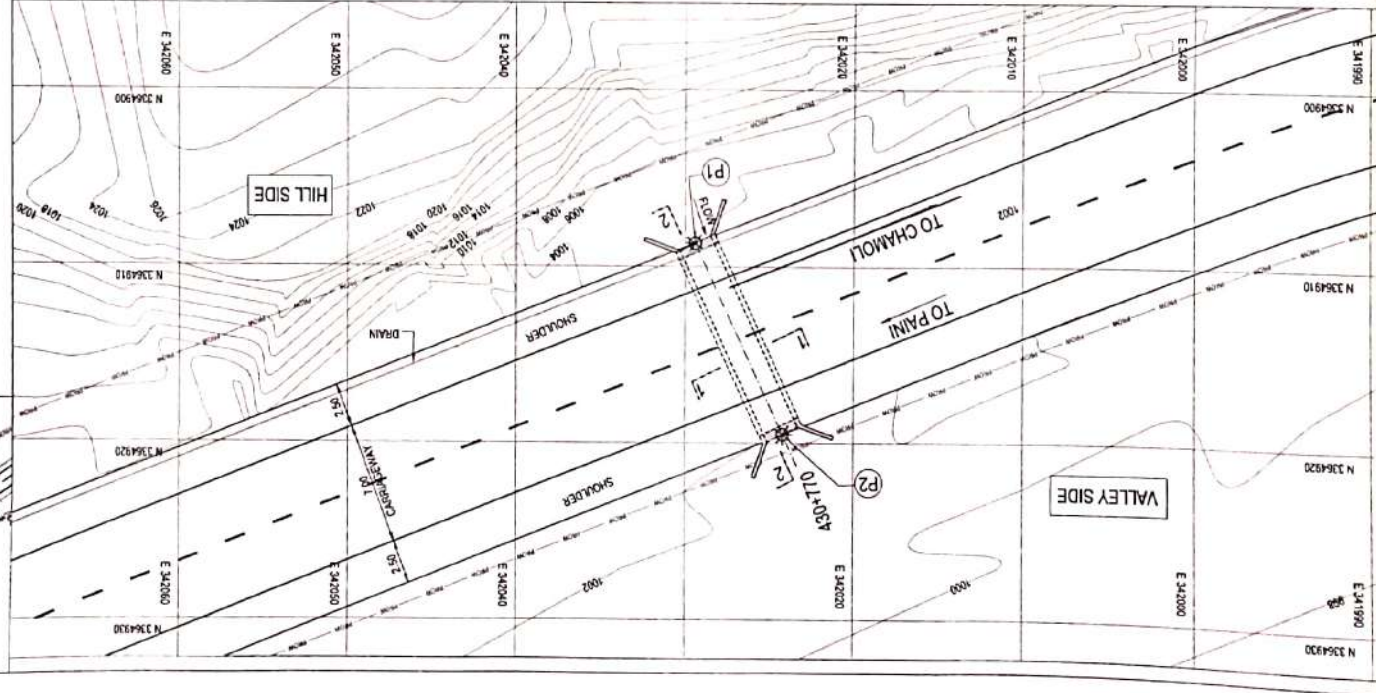
1. ALL DIMENSIONS ARE IN METRE. UNLESS OTHERWISE SPECIFIED
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3. ARE TO BE TAKEN AS CORRECT
4. THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOW / DETERMINED BY ENGINEER IN CHARGE SITE ENGINEER
5. FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK SEPARATE DRAWING



 OWNER ENGINEERING National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		 SAFETY CONSULTANT MANOMAY PVT. LTD.		 EPC CONTRACTOR NKG INFRASTRUCTURE		 PROJ. CONSULTANT K.C. GLOBAL CONSULTANTS 301, KANDLA SAKTI 14, Durgam 100, Durgam Chauri, Durgam www.kcglobalconsultants.com		PROJECT CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLI TO PAINI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.900 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHANDHAN PARIJODANA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-II)	
TITLE CHAMOLI TO PAINI ROAD CULVERT ARRANGEMENT AT CHAINAGE: 430+770	DRAWN BY JK	DESIGNED BY SK	APPROVED BY DK	SCALE 1:100, 1:200	REVISION R.O 262-C/P/ROAD/GA/C328	AUG-2018			



PLAN AT CH = 430+795
SCALE 1:200



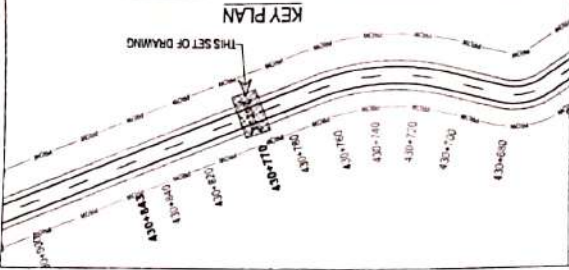
NOTES :-

1. ALL DIMENSIONS ARE IN METRE, UNLESS OTHERWISE SPECIFIED
2. NO DIMENSION SHALL BE NEGATIVE, ONLY WRITTEN DIMENSIONS ARE TO BE TAKEN AS CORRECT
3. THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOW / DETERMINED BY ENGINEER-IN-CHARGE/SITE ENGINEER
4. FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK SEPARATE DRAWING

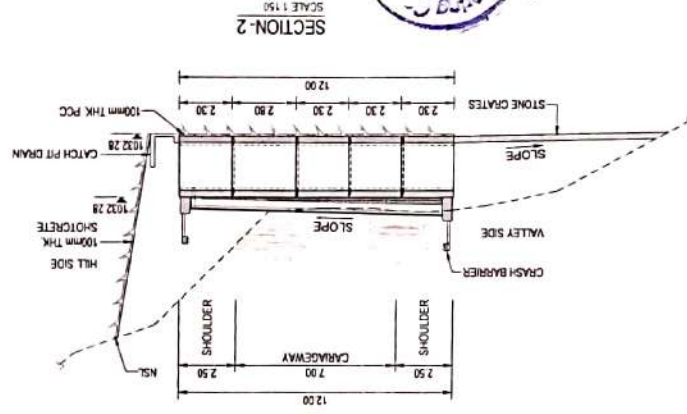
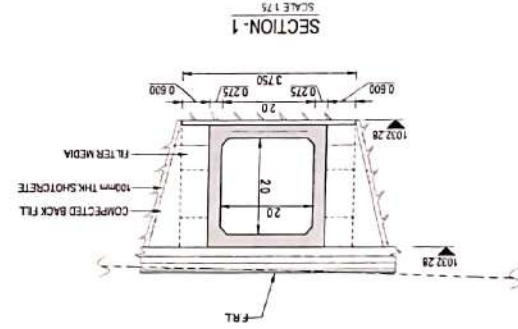
LEGEND :-

CULVERT COORDINATES			
POINT	EASTING	NORTHING	DESCRIPTION
P1	342028.40	3364908.68	INLET
P2	342024.21	3364919.50	OUTLET

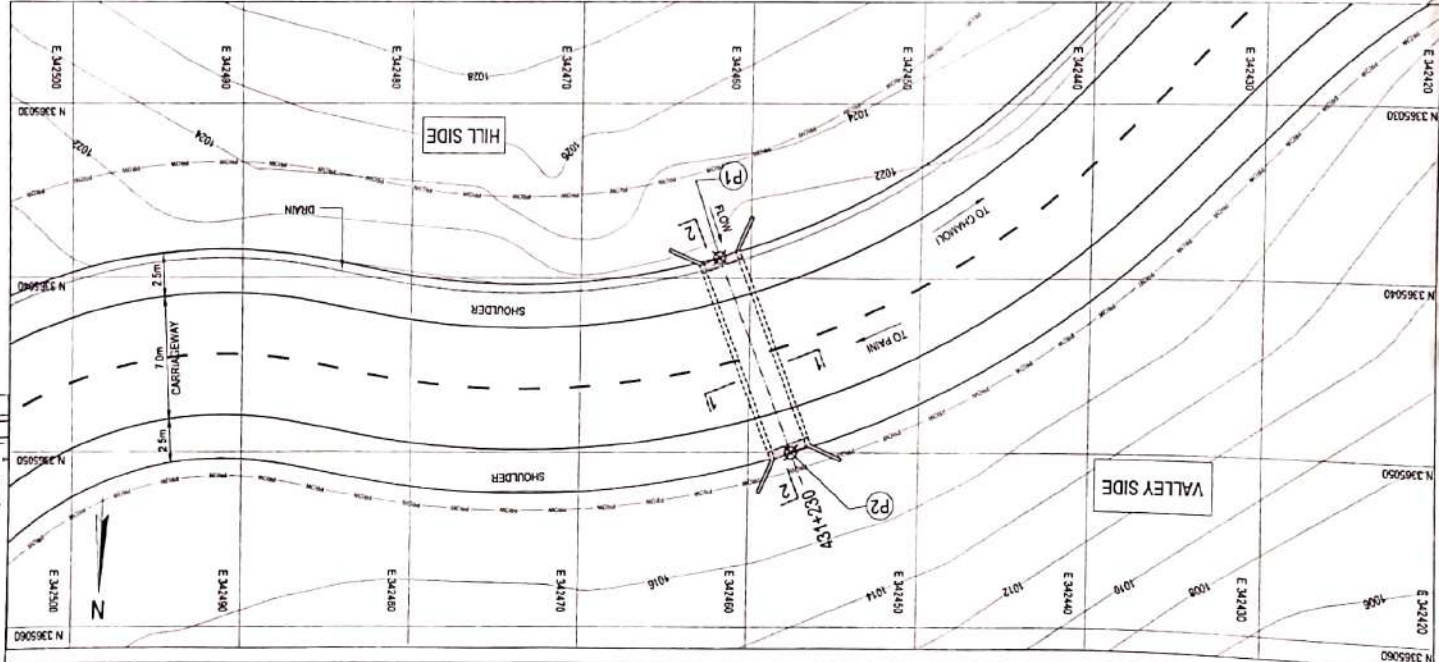
KEY PLAN
THIS SET OF DRAWING



OWNER ENGINEERING National Highways & Infrastructure Development Corporation Ltd (NHIDCL)		SAFETY CONSULTANT MANOMAY PVT. LTD. MEPL		EPC CONTRACTOR NKG INFRASTRUCTURE		PROJECT CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE WITH PAVED SHOULDERS FROM KM 430.000 TO KM 468.000 OF CHAMOLI TO PAINI (EXCLUDING KM 437.625 TO KM 437.775, KM 458.900 TO KM 459.475 AND KM 464.425 TO KM 464.525) OF NH-07 UNDER CHARGEDAM PARIYAJANA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-III)	
DRAWN BY JK		DESIGNED BY SK		APPROVED BY DK		SCALE 1:100, 1:200	
TITLE CHAMOLI TO PAINI ROAD CULVERT ARRANGEMENT AT CHANAGE 431+250		DRG NO. 252 CP/ROAD/CA/030		REVISION R-0		AUG-2018	



PLAN AT CH = 431+255
SCALE 1:200



LEGEND :-

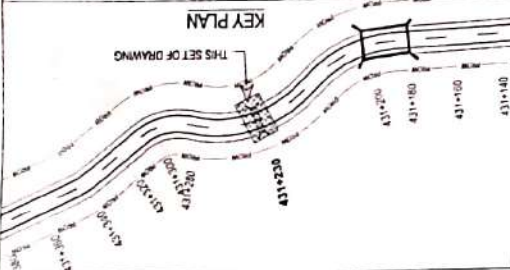
CULVERT	ROAD MEDIAN	ROCK LINE
---------	-------------	-----------

NOTES :-

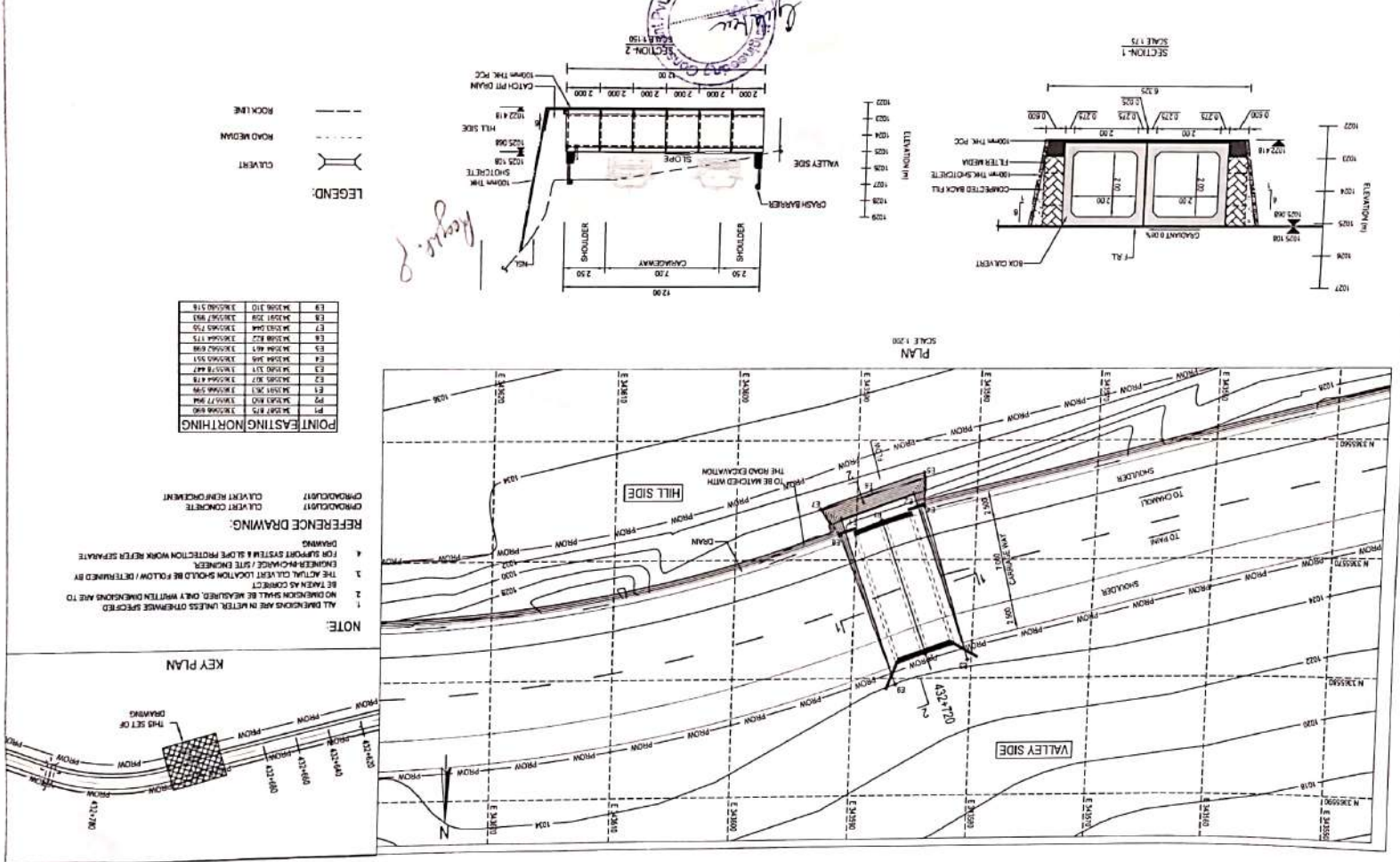
1. ALL DIMENSIONS ARE IN METRE, UNLESS OTHERWISE SPECIFIED
2. NO DIMENSION SHALL BE MEASURED ONLY WRITTEN DIMENSIONS ARE TO BE TAKEN AS CORRECT
3. THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOW / DETERMINED BY ENGINEER IN CHARGE/SITE ENGINEER
4. FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK SEPARATE DRAWING

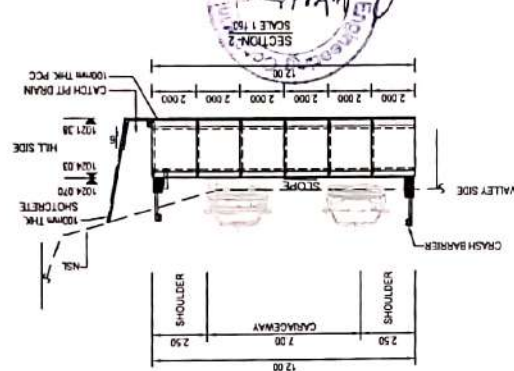
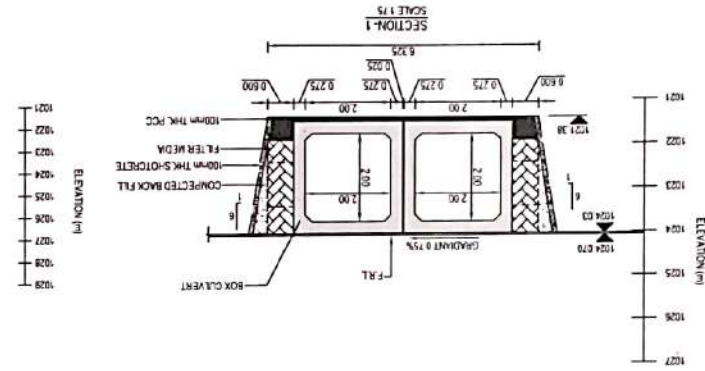
CULVERT COORDINATES

POINT	EASTING	NORTHING	DESCRIPTION
P1	342461.82	336503.80	INLET
P2	342457.48	336504.99	OUTLET



OWNER ENGINEERING National Highways & Infrastructure Development Corporation Ltd (NHICL)		SAFETY CONSULTANT SW MANOMAY ENGINEERS PVT LTD MUM		EPC CONTRACTOR DESIGN SECTION M&I INFRASTRUCTURE LTD		PROJECT CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 43.000 TO KM 44.000 OF CHAMOLI TO PAINI UNDER CHAMOLI PROJECT ON EPC BASIS IN THE STATE OF UTTARANCHAL (INDIA)	
DRAWN BY: BK		DESIGNED BY: SK		APPROVED BY: DK		SCALE: 1:200 & 1:75	
TITLE: CHAMOLI TO PAINI ROAD CULVERT GENERAL ARRANGEMENT		AT CH-43+720		ORG. NO. 262 CH/ROAD/CUL/C13		REVISION R.O. APR 2019	





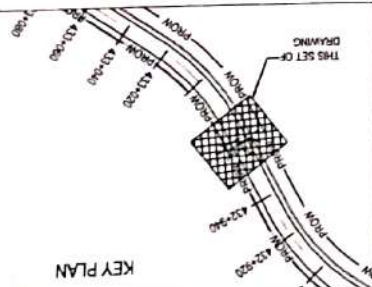
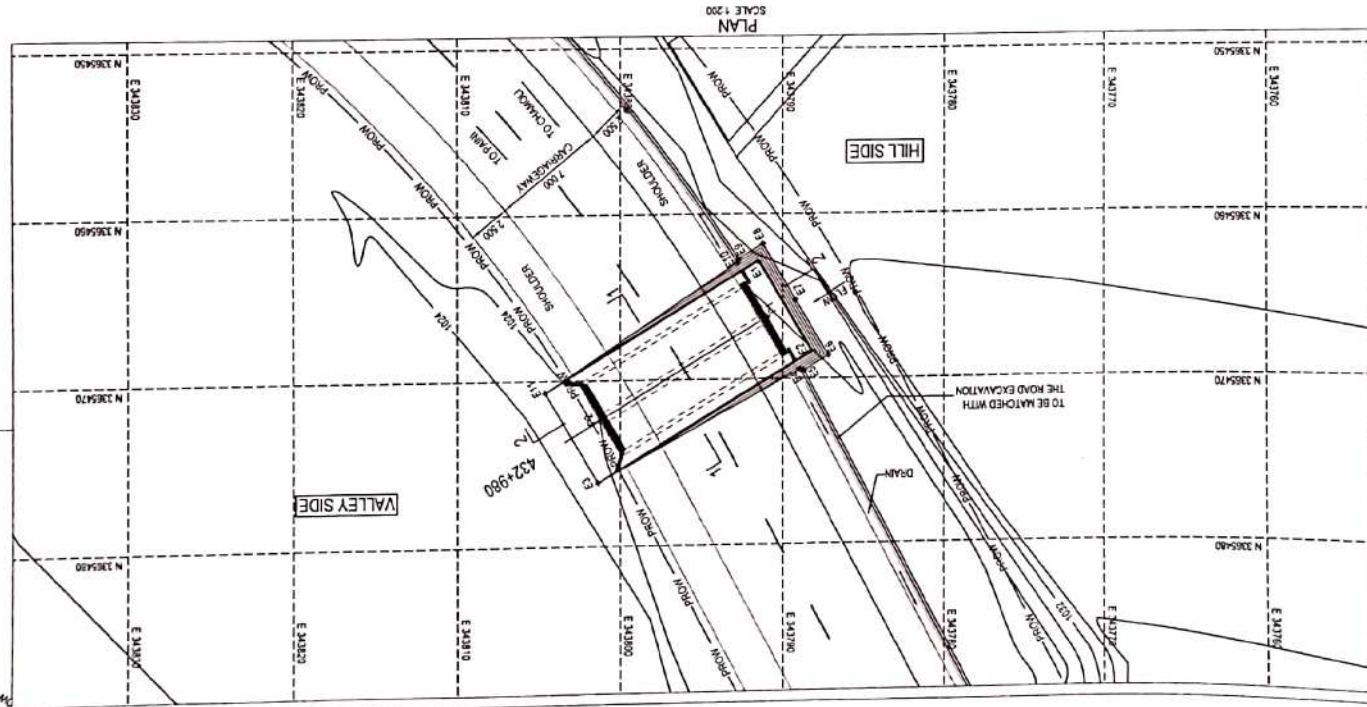
POINT EASTING	NORTHING
100	100
101	100
102	100
103	100
104	100
105	100
106	100
107	100
108	100
109	100
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187	100
188	100
189	100
190	100
191	100
192	100
193	100
194	100
195	100
196	100
197	100
198	100
199	100
200	100

REFERENCE DRAWING:

CPROAD/CUR17	CULVERT CONCRETE
CPROAD/CUR17	CULVERT REINFORCEMENT

1 ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE SPECIFIED
2 NO DIMENSION SHALL BE MEASURED, ONLY WRITTEN DIMENSIONS ARE TO
3 BE TAKEN AS CORRECT
4 THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOWED / DETERMINED BY
ENGINEER-IN-CHARGE / SITE ENGINEER
5 FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK REFER SEPARATE
DRAWING

NOTE:





National Highways & Infrastructure
Development Corporation Ltd (NHIDCL)

SAFETY ENGINEERING
SAFETY CONSULTANT
PVT LTD MUM

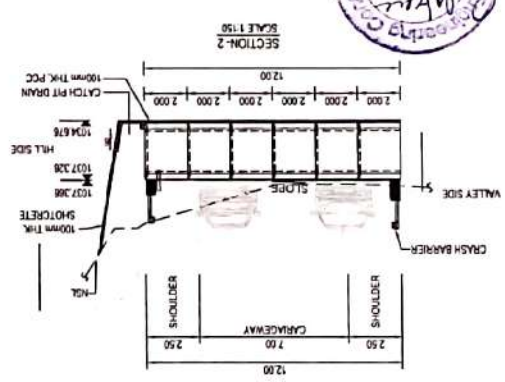
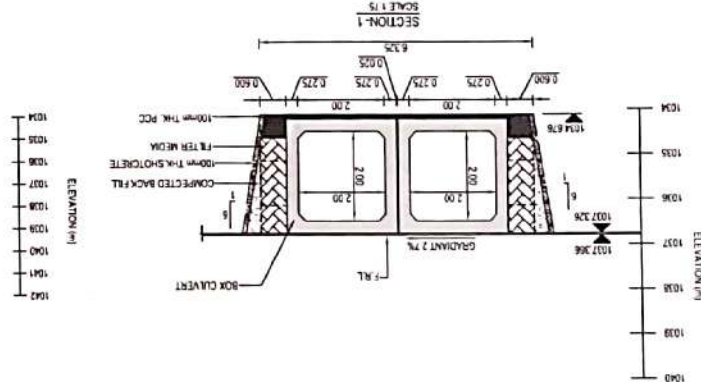
EPC CONTRACTOR
NKS INFRASTRUCTURE LTD

PROJECT
STATE OF UTTARAKHAND (PH-03)
UNDER CHAKRAHARTY PAVEMENT ON EPC BASIS IN THE
EXCLUDING KM 425 TO KM 427.75, KM 428.00 TO
430.00 TO KM 440.00 OF CHAKRAHARTY TO PAVEMENT
TO 2 LANE WITH PAVED SHOULDERS FROM KM
CONSTRUCTION & UPGRADE OF EXISTING ROAD

PROFESSIONAL
CONSULTANT
MUM
301 KANUN SIKHAN, DURGAM
NEW DELHI, INDIA 110075
www.kanunshikhan.com

REVISION: R-0
APR 2019
SCALE: 1:200
DATE: 12.00
DESCRIPTION: 2.000
REV: 2.000
DATE: 2.000
DESCRIPTION: 2.000

DRAWN BY: BK
DESIGNED BY: SK
APPROVED BY: DK
DRG. NO.: 262-CH-ROAD-CUL-015
TITLE: CHAKRAHARTY TO PAVEMENT
AT CH-433+400
GENERAL ARRANGEMENT



LEGEND:

- ROCK LINE
- ROAD MEDIAN
- CULVERT

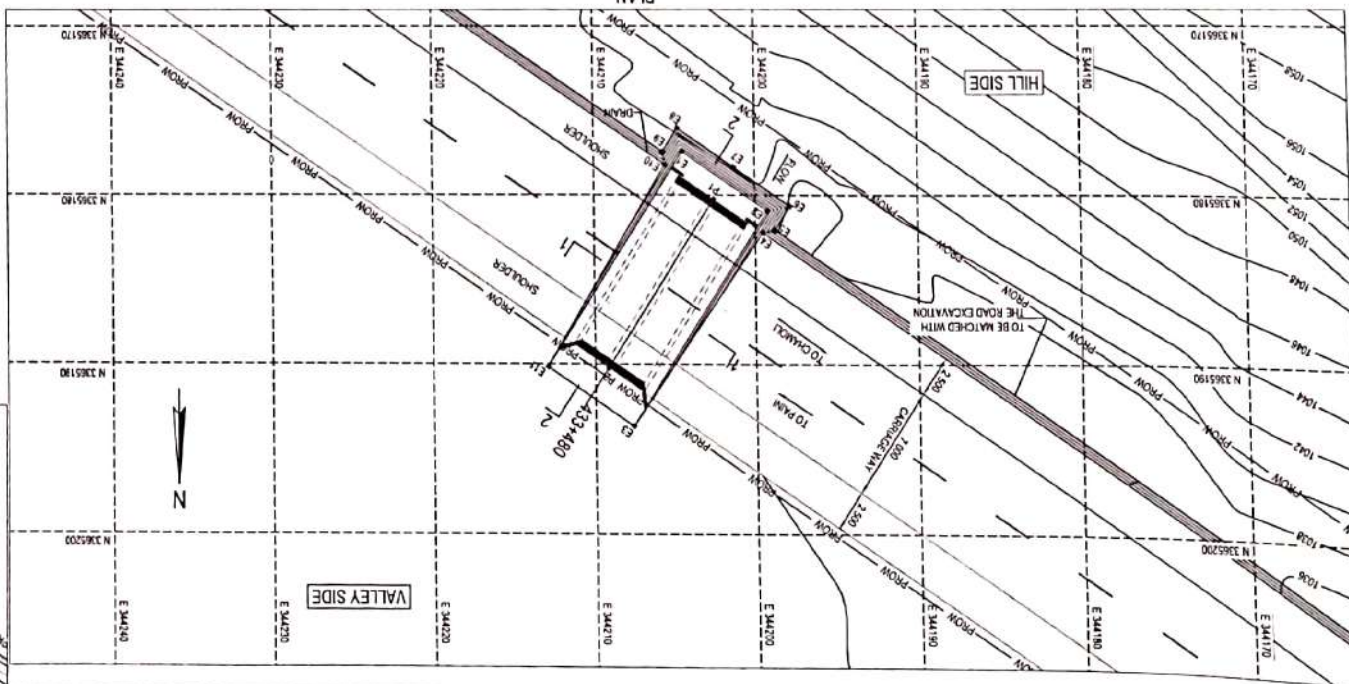
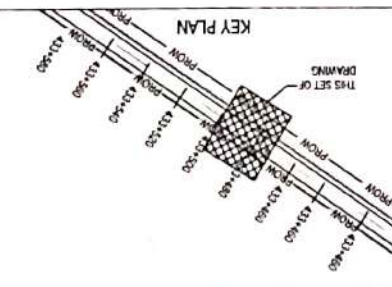
POINT	EASTING	NORTHING
E11	34272.924	3365190.188
E10	34270.596	3365178.188
E9	34268.742	3365177.448
E8	34266.812	3365176.017
E7	34264.714	3365174.344
E6	34262.508	3365172.454
E5	34260.200	3365170.248
E4	34257.825	3365167.722
E3	34255.306	3365164.848
E2	34252.757	3365161.547
E1	34250.200	3365157.448
P1	34247.579	3365150.234

NOTE:

- ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
- NO DIMENSION SHALL BE MEASURED, ONLY WRITTEN DIMENSIONS ARE TO BE TAKEN AS CORRECT.
- THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOW / DETERMINED BY ENGINEER-IN-CHARGE / SITE ENGINEER.
- FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK REFER SEPARATE DRAWING.

REFERENCE DRAWING:

- CHAKRAHARTY CULVERT REINFORCEMENT
- CHAKRAHARTY CULVERT CONCRETE



OWNER ENGINEERING
National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT
MAHOMAY ENGINEERS PVT LTD MEPL

EPC CONTRACTOR
HKG INFRASTRUCTURE LTD

PROOF CONSULTANT
HKG CONSULTANTS PVT LTD

PROJECT
CONSTRUCTION & UPGRADATION OF EXISTING ROAD UNDER CHANDRAKHAM PARYADANA ON EPC BASIS IN THE STATE OF UTTARAKHAND (PG-III)

REVISION: R-0
APR 2019

DWG NO. 262-CPROAD/CULV012

APPROVED BY: DK

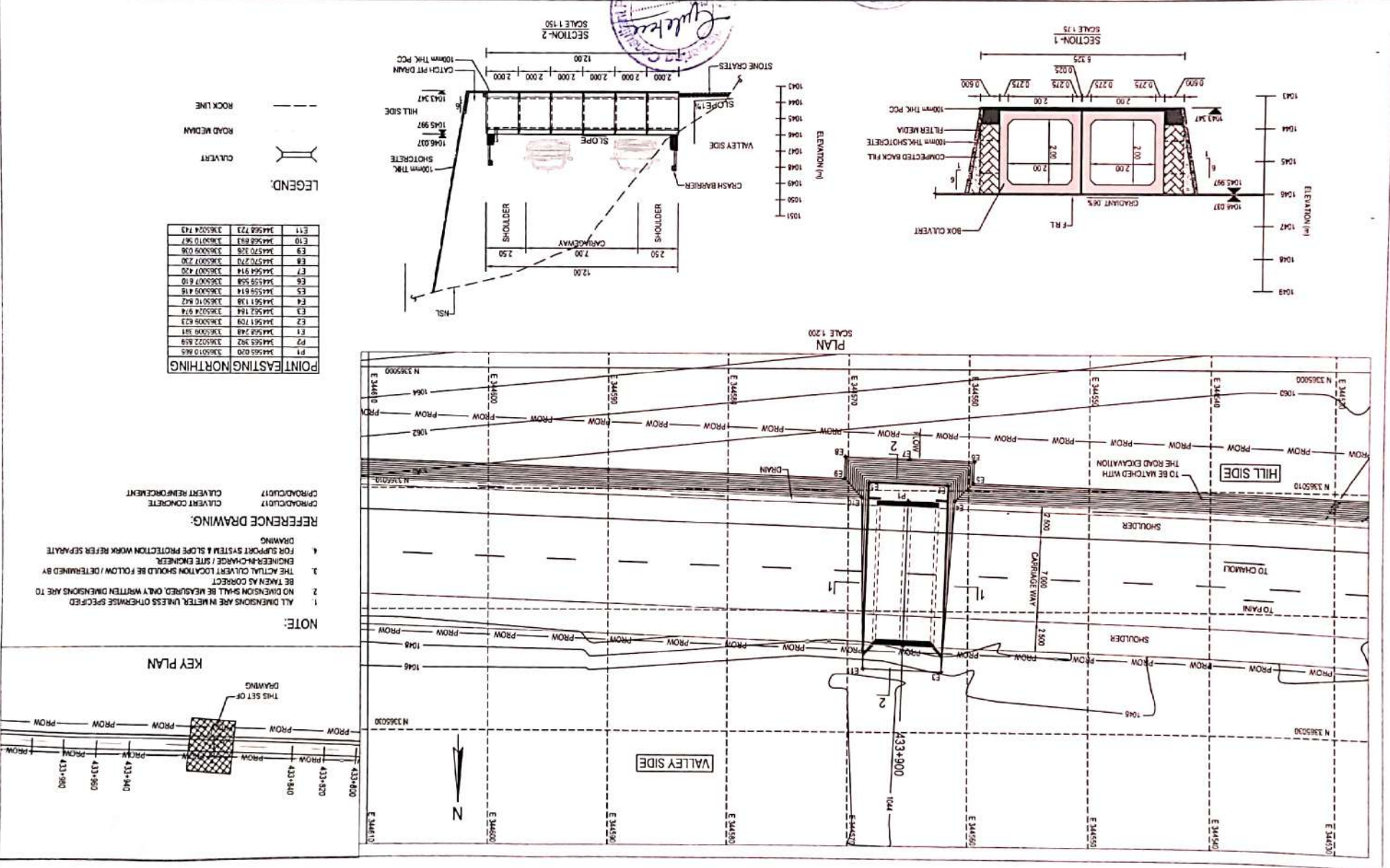
DESIGNED BY: SK

DRAWN BY: BK

SCALE: 1:200, 1:50, 1:75

DESCRIPTION

TITLE: CHAMOLI TO PAINI ROAD
CULVERT GENERAL ARRANGEMENT
AT CH-433+900



OWNER ENGINEERING
National Highways & Infrastructure Development Corporation Ltd (NHIDCL)

SAFETY CONSULTANT
MANDARAV ENGINEERS PVT LTD MEPL

EPC CONTRACTOR
NKG INFRASTRUCTURE LTD

PROJECT
KDC GLOBAL CONSULTANTS
KDC CONSULTANTS
KDC CONSULTANTS

REVISION R-0
1401200

SCALE
1:401200

APPROVED BY
DK

DESIGNED BY
SK

DRAWN BY
AS

REV
DATE
DESCRIPTION

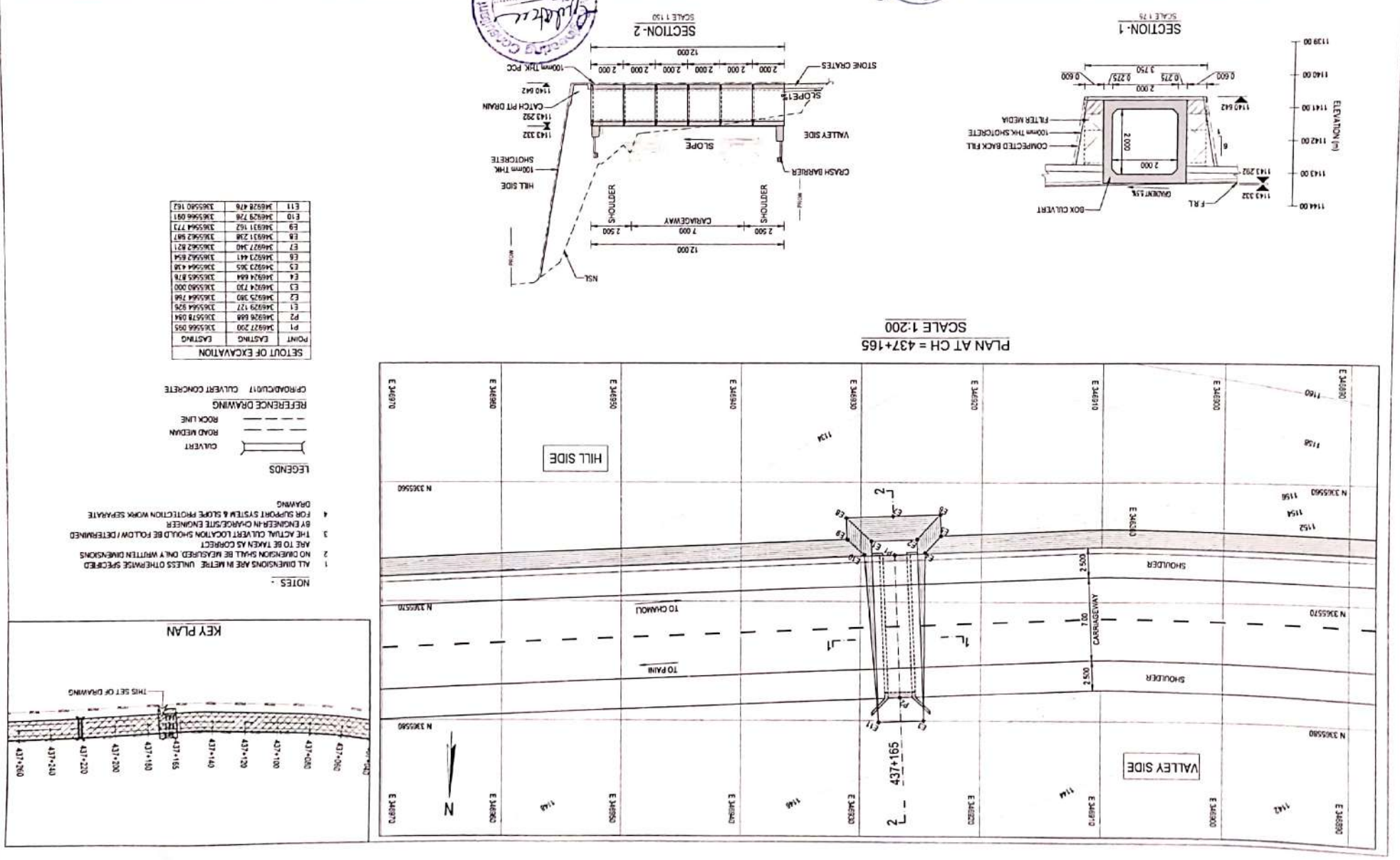
PROJECT
CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2 LANE WITH PAVED SHOULDERS FROM KM 437.625 TO KM 437.775, KM 458.900 TO KM 459.475 AND KM 464.425 TO KM 464.525 OF NH-07 UNDER CHANDHAN PARIYAL ON EPC BASIS IN THE STATE OF UTTARAKHAND (PKG-III)

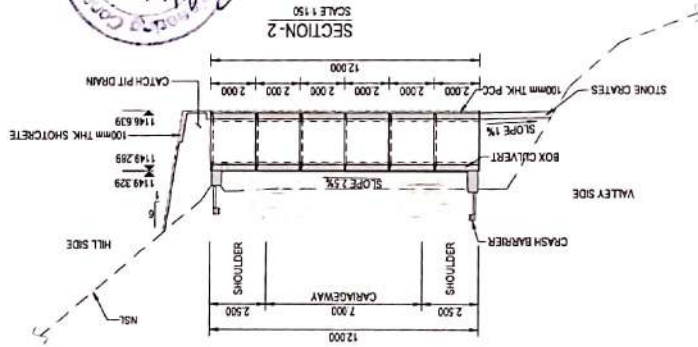
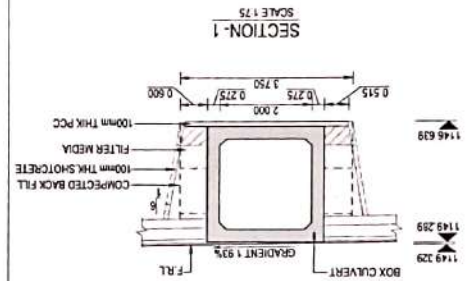
TITLE
CHAMOLI TO PAINI ROAD
CULVERT ARRANGEMENT AT
CHAMOLI-437+165

DRG NO
262-CP/ROAD/GA/027

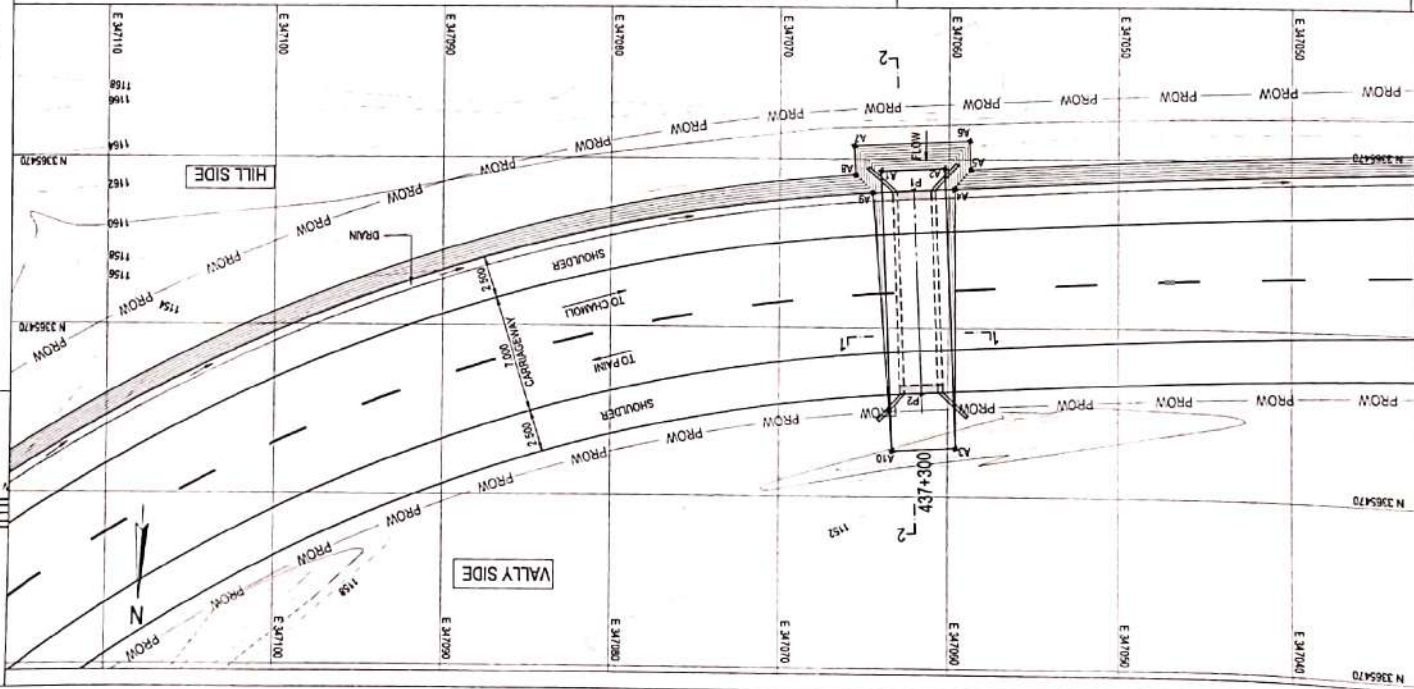
REVISION R-0
1401200

DATE
FEB-2019





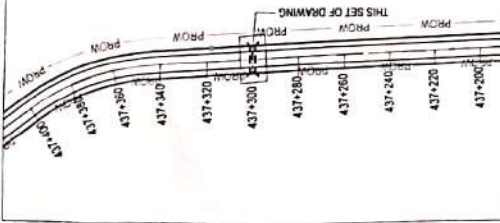
PLAN AT CH 437+300
SCALE 1:200



CULVERT COORDINATES

POINT	EASTING	NORTHING
P1	347062.077	3365571.855
P2	347061.565	3365585.844
A1	347060.004	3365570.694
A2	347060.257	3365570.526
A3	347059.548	3365587.103
A4	347059.660	3365571.752
A5	347059.707	3365570.590
A6	347059.779	3365568.916
A7	347059.814	3365569.208
A8	347059.541	3365570.823
A9	347060.604	3365571.918
A10	347062.296	3365587.220

KEY PLAN

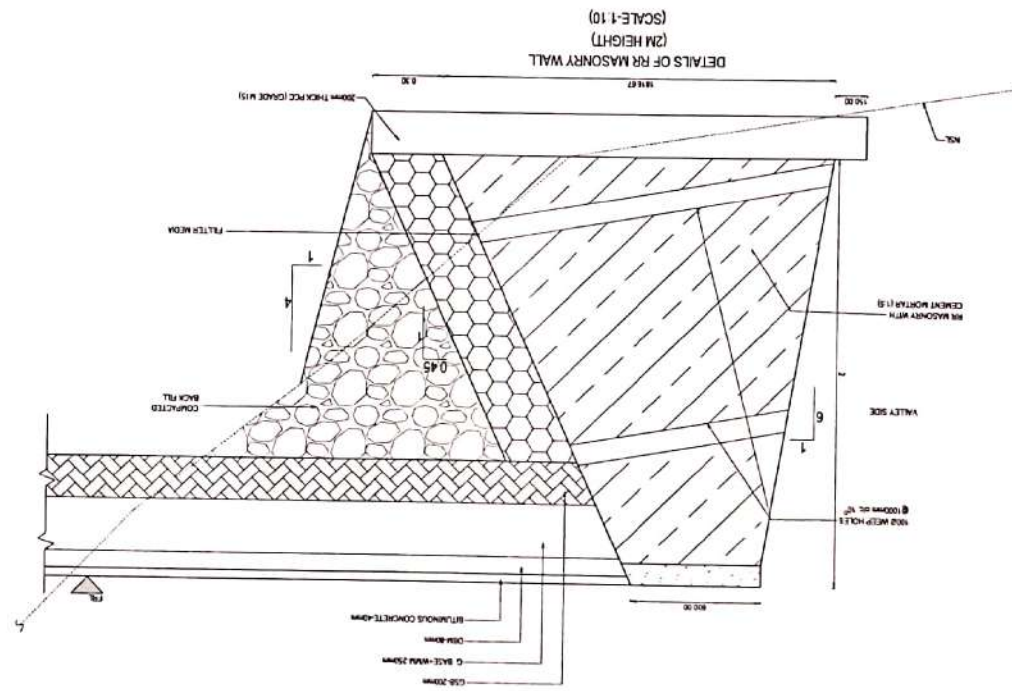


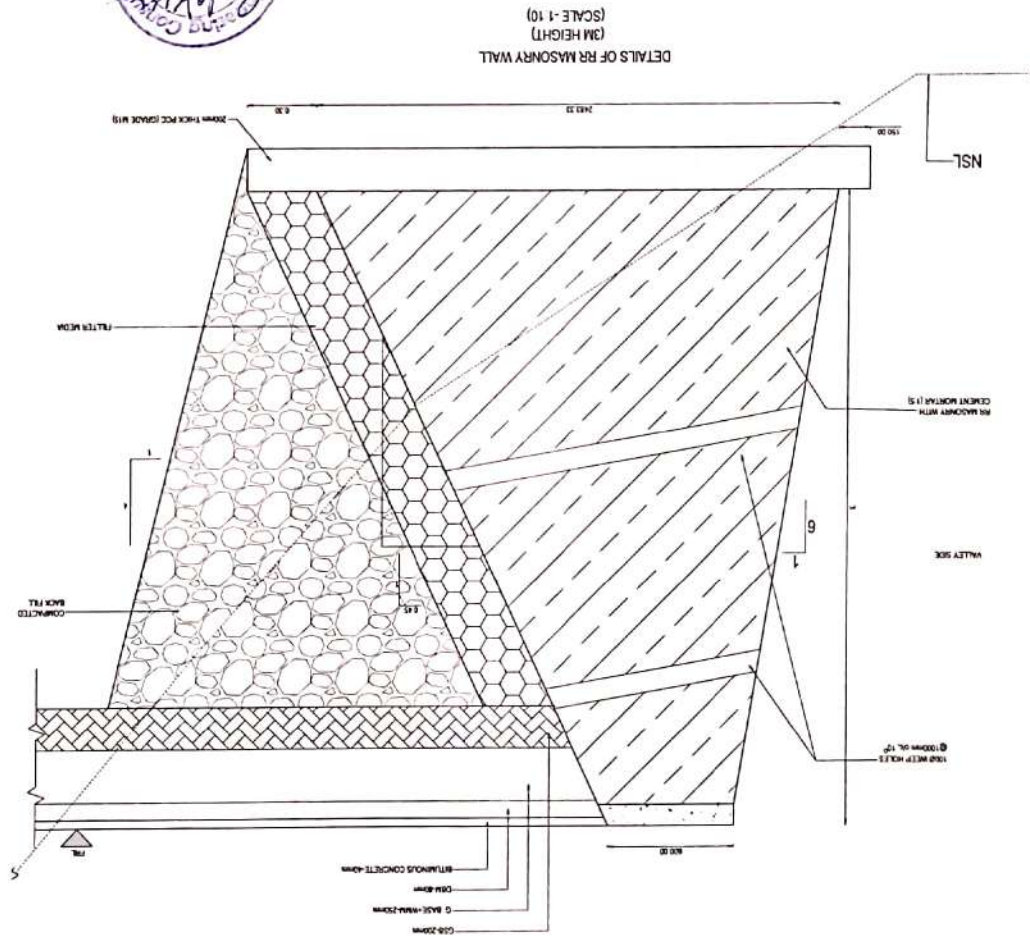
REFERENCE DRAWING:

1. ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE SPECIFIED
2. NO DIMENSION SHALL BE MEASURED, ONLY WRITTEN DIMENSIONS ARE TO BE TAKEN AS CORRECT
3. THE ACTUAL CULVERT LOCATION SHOULD BE FOLLOWED / DETERMINED BY ENGINEER-IN-CHARGE / SITE ENGINEER
4. FOR SUPPORT SYSTEM & SLOPE PROTECTION WORK

NOTE:

- LEGEND
- ROAD MEDIUM
 - CULVERT

[illegible]



SCHEDULE OF APPLICABILITY			
DIM HEIGHT BR MASONRY WALL			
SERIAL NO	START CHARGE (RM)	END CHARGE (RM)	LENGTH (M)
1	429-505	429-515	25
2	431-020	431-043	20
3	429-225	429-250	25
4	437-155	437-175	20
5	437-155	437-175	20

1. The first step in the process is to identify the problem. This is done by observing the system and identifying the symptoms.

2. The next step is to define the problem. This is done by stating the problem in clear, concise terms.

3. The third step is to analyze the problem. This is done by breaking the problem down into its component parts.

4. The fourth step is to develop a solution. This is done by brainstorming ideas and selecting the best one.

5. The fifth step is to implement the solution. This is done by putting the solution into action.

6. The sixth step is to evaluate the solution. This is done by monitoring the system and determining if the problem has been solved.

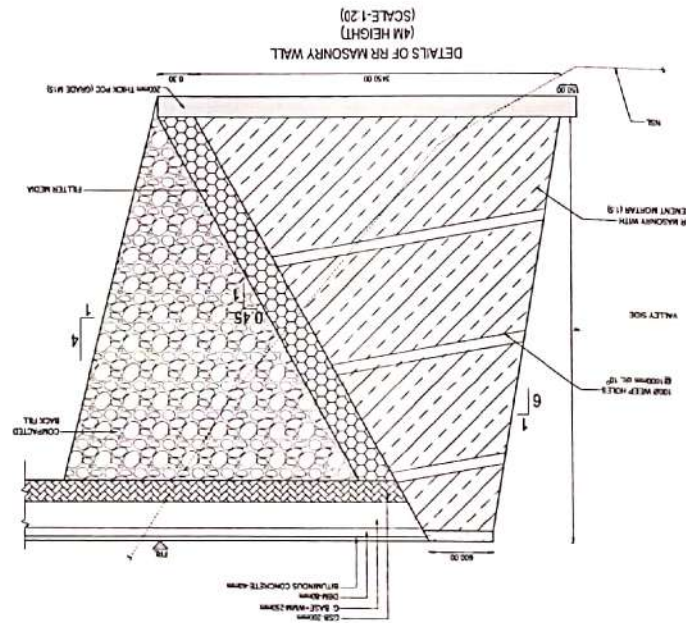
7. The seventh step is to document the solution. This is done by writing a report on the problem and the solution.

8. The eighth step is to communicate the solution. This is done by sharing the solution with others.

9. The ninth step is to reflect on the solution. This is done by thinking about the solution and what was learned.

10. The tenth step is to apply the solution. This is done by using the solution in other situations.

SCHEDULE OF APPLICABILITY			
(4) HEIGHT FOR MASONRY WALL			
SERIAL NO.	START CHARGE (mm)	END CHARGE (mm)	LENGTH (m)
1	430-965	430-585	20
2	436-500	436-375	75
3	437-010	437-040	30

[illegible]

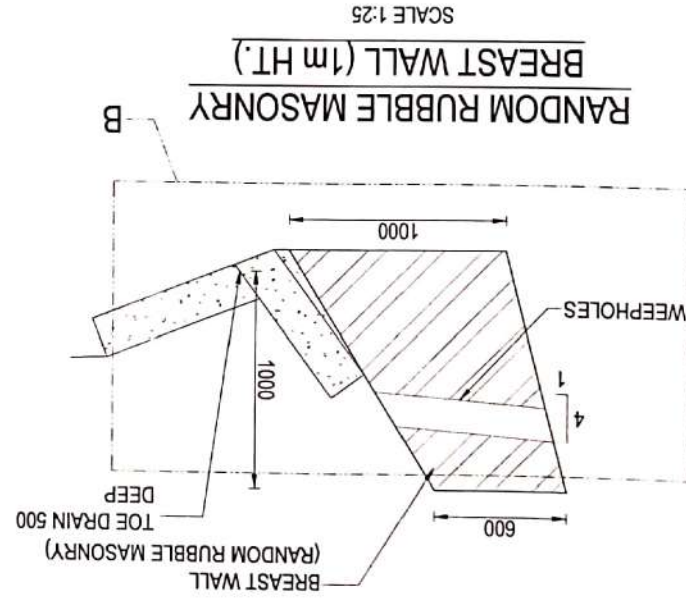
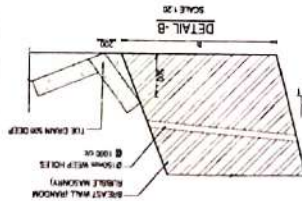
1 ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE
SPECIFIED
2 NO DIMENSIONS SHALL BE MEASURED FROM 1.000
3 WATER COLLECTED TO DRAIN SHALL BE CHANNELLED TO THE
4 NEAREST COLLECTION POOL ON VALLEY SIDE
5 BREAKFAST WALL HAS BEEN DESIGNED AS PER TABLE ON DRAWING 01-100

LEGEND

PCC

BREAST WALT

SCHEDULE OF APPLICABILITY (1M HEIGHT BRICKMASONRY BREAST WALL)			
SERIAL NO.	START CHARGE (MM)	END CHARGE (MM)	LENGTH (M)
1	428+575	428+625	50
2	429+500	429+525	25
3	429+575	429+700	25
4	429+950	430+250	300
5	430+225	430+375	150
6	430+425	430+675	250
7	430+700	430+875	200
8	430+900	433+525	125
9	433+575	434+025	50
10	434+075	436+350	125
11	436+400	436+650	250
12	436+900	437+050	150
13	437+125	437+150	25

[illegible]

- NOTES
1. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
 2. NO DIMENSIONS SHALL BE MEASURED FROM DRAWING
 3. WATER COLLECTED TO DRAIN FROM WALLS SHALL BE CHANNELLED TO THE NEAREST COLLECTOR POND OR VALLEY SIDE
 4. BREAST WALL HAS BEEN DESIGNED AS PER TABLE OF DIMENSIONS

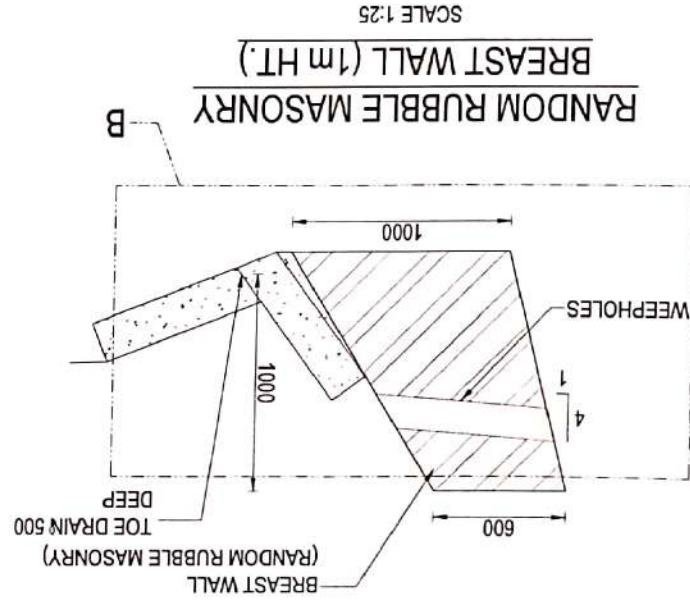
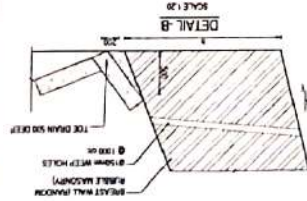


SCHEDULE OF APPLICABILITY
(1M HEIGHT RR MASONRY BREAST WALL)

SERIAL NO.	START CHAINAGE (RM)	END CHAINAGE (RM)	LENGTH (M)
1	428+575	428+625	50
2	429+500	429+525	25
3	429+675	429+700	25
4	429+950	430+250	300
5	430+325	430+375	50
6	432+625	432+675	50
7	432+700	432+750	50
8	433+400	433+525	125
9	434+025	434+075	50
10	436+225	436+350	125
11	436+400	436+650	250
12	436+900	437+050	150
13	437+125	437+150	25

BREAST WALL

S. NO.	HEIGHT OF BREAST WALL (mm)	HEIGHT OF TOP MORTAR (mm)	APPLICABLE CUT HEIGHT
1	1000	1000	1000
2	2000	2000	2000
3	3000	3000	3000
4	4000	4000	4000
5	5000	5000	5000
6	6000	6000	6000
7	7000	7000	7000
8	8000	8000	8000
9	9000	9000	9000
10	10000	10000	10000
11	11000	11000	11000
12	12000	12000	12000
13	13000	13000	13000
14	14000	14000	14000
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16	16000	16000	16000
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20	20000	20000	20000
21	21000	21000	21000
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46	46000	46000	46000
47	47000	47000	47000
48	48000	48000	48000
49	49000	49000	49000
50	50000	50000	50000



OWNER ENGINEERING National Highways & Infrastructure Development Corporation Ltd (NHIDOL)		SAFETY CONSULTANT MAY AND MEER S MAHARAJAN ENGINEERS		EPC CONTRACTOR NKG INFRASTRUCTURE LTD		PROJECT CONSULTANT PROJ CONSULTANT 101 KALINING STREET SINGAPORE 159075 www.projconsultant.com		PROJECT CONSTRUCTION & UPGRADATION OF EXISTING ROAD TO 2-LANE UNDER CHANDRAM PARTIYANA ON EPC BASIS IN THE STATE OF UTTERANCHAL (PG-III) 435.900 TO KM 435.475 AND KM 434.425 TO KM 433.775, KM CHAMOLI TO PAINI (EXCLUDING FROM KM 430.000 TO KM 466.800 OF WITH PAVED SHOULDERS FROM KM 430.000 TO KM 466.800 OF	
TITLE DETAILS OF RR MASONRY BREAST WALL FOR 2m HEIGHT		DRAWN BY AS		DESIGNED BY SK		APPROVED BY DK		SCALE 1:25 (A3) 1:50 (A2)	
DWG NO CP-R040/C04019		REVISION NO 0		JAN 2019					

NOTES

- ALL DIMENSIONS SHOWN ARE IN METRES UNLESS OTHERWISE SPECIFIED
- NO DIMENSIONS SHALL BE MEASURED FROM DRAWING
- WATER COLLECTED TO DRAIN SHALL BE CHANNELLED TO THE NEAREST COLLECTION POOL OR WATER SIE
- BREAST WALL HAS BEEN DESIGNED AS PER TABLE OF DIMENSIONS

LEGEND

PC

BREAST WALL

STATION NO	START CHAINAGE (KM)	END CHAINAGE (KM)	LENGTH (M)
1	427.850	427.875	25
2	430.375	430.700	325
3	430.825	430.925	100
4	431.175	431.225	50
5	431.375	431.425	50
6	432.150	432.200	50
7	432.575	432.625	50
8	432.675	432.700	25
9	433.525	433.800	275
10	433.825	433.975	150
11	434.175	434.375	200
12	434.900	434.975	75
13	435.000	435.075	75
14	435.125	435.150	25
15	436.200	436.225	25
16	436.350	436.400	50
17	437.050	437.100	50
18	437.250	437.375	125
19	438.300	438.325	25
20	438.550	438.650	100
21	438.675	438.725	50
22	438.775	438.800	25
23	438.825	438.950	125
24	439.075	439.175	100

SCHEDULE OF APPLICABILITY (2M HEIGHT RR MASONRY BREAST WALL)

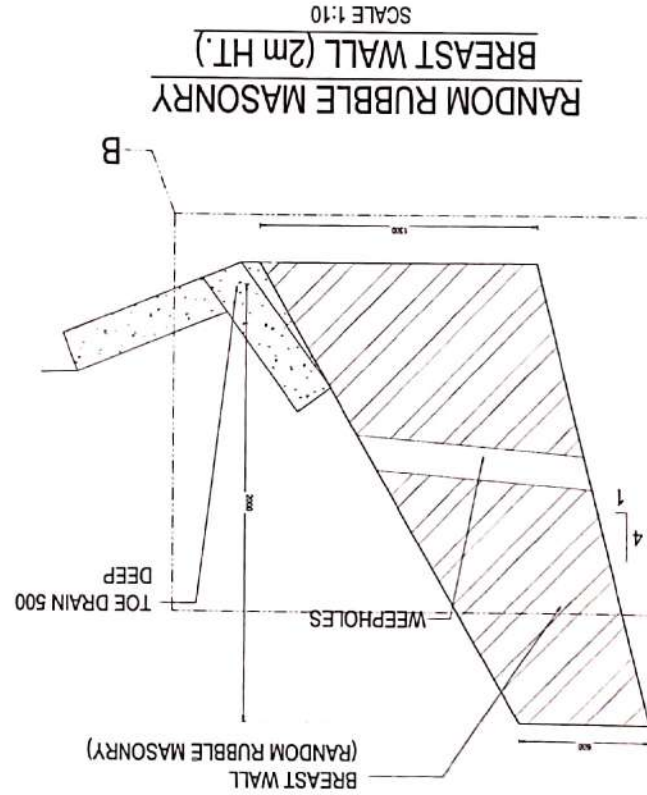
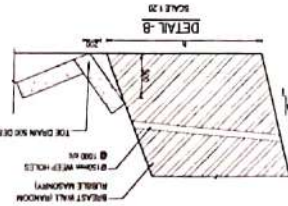
STATION NO	START CHAINAGE (KM)	END CHAINAGE (KM)	LENGTH (M)
1	427.850	427.875	25
2	430.375	430.700	325
3	430.825	430.925	100
4	431.175	431.225	50
5	431.375	431.425	50
6	432.150	432.200	50
7	432.575	432.625	50
8	432.675	432.700	25
9	433.525	433.800	275
10	433.825	433.975	150
11	434.175	434.375	200
12	434.900	434.975	75
13	435.000	435.075	75
14	435.125	435.150	25
15	436.200	436.225	25
16	436.350	436.400	50
17	437.050	437.100	50
18	437.250	437.375	125
19	438.300	438.325	25
20	438.550	438.650	100
21	438.675	438.725	50
22	438.775	438.800	25
23	438.825	438.950	125
24	439.075	439.175	100

SCHEDULE OF APPLICABILITY (2M HEIGHT RR MASONRY BREAST WALL)

STATION NO	START CHAINAGE (KM)	END CHAINAGE (KM)	LENGTH (M)
1	427.850	427.875	25
2	430.375	430.700	325
3	430.825	430.925	100
4	431.175	431.225	50
5	431.375	431.425	50
6	432.150	432.200	50
7	432.575	432.625	50
8	432.675	432.700	25
9	433.525	433.800	275
10	433.825	433.975	150
11	434.175	434.375	200
12	434.900	434.975	75
13	435.000	435.075	75
14	435.125	435.150	25
15	436.200	436.225	25
16	436.350	436.400	50
17	437.050	437.100	50
18	437.250	437.375	125
19	438.300	438.325	25
20	438.550	438.650	100
21	438.675	438.725	50
22	438.775	438.800	25
23	438.825	438.950	125
24	439.075	439.175	100

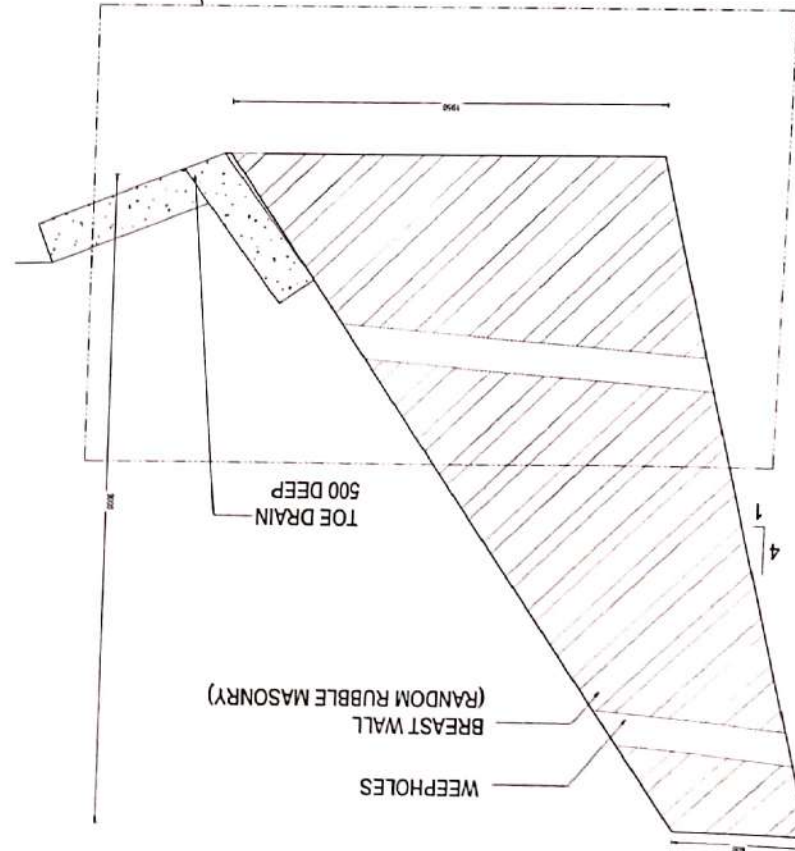
BREAST WALL

STATION NO	START CHAINAGE (KM)	END CHAINAGE (KM)	LENGTH (M)
1	427.850	427.875	25
2	430.375	430.700	325
3	430.825	430.925	100
4	431.175	431.225	50
5	431.375	431.425	50
6	432.150	432.200	50
7	432.575	432.625	50
8	432.675	432.700	25
9	433.525	433.800	275
10	433.825	433.975	150
11	434.175	434.375	200
12	434.900	434.975	75
13	435.000	435.075	75
14	435.125	435.150	25
15	436.200	436.225	25
16	436.350	436.400	50
17	437.050	437.100	50
18	437.250	437.375	125
19	438.300	438.325	25
20	438.550	438.650	100
21	438.675	438.725	50
22	438.775	438.800	25
23	438.825	438.950	125
24	439.075	439.175	100



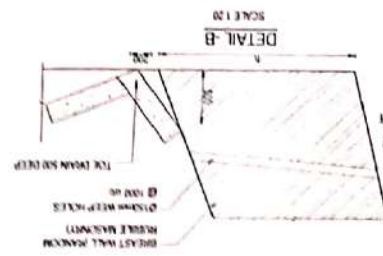
RANDOM RUBBLE MASONRY BREAST WALL (3m HT.)

SCALE 1:10



SCHEDULE OF APPLICABILITY
(3M HEIGHT RANDOM RUBBLE MASONRY BREAST WALL)

SERIAL NO.	START CHAINAGE (M)	END CHAINAGE (M)	LENGTH (M)
1	427+875	428+450	575
2	428+450	429+125	675
3	429+125	429+800	675
4	429+800	430+475	675
5	430+475	431+150	675
6	431+150	431+825	675
7	431+825	432+500	675
8	432+500	433+175	675
9	433+175	433+850	675
10	433+850	434+525	675
11	434+525	435+200	675
12	435+200	435+875	675
13	435+875	436+550	675



BREAST WALL

NO.	REMARKS	UNIT	QTY	UNIT PRICE	TOTAL
1	RANDOM RUBBLE MASONRY	CUM	1000	1000	1000000
2	TOE DRAIN	M	1000	1000	1000000
3	WEEP HOLES	M	1000	1000	1000000
4	CONCRETE	CUM	1000	1000	1000000
5	PAVING	M	1000	1000	1000000
6	GRANULAR FILL	CUM	1000	1000	1000000
7	GEOTEXTILE	M	1000	1000	1000000
8	PAINT	L	1000	1000	1000000
9	LABOR	H	1000	1000	1000000
10	TRANSPORT	M	1000	1000	1000000
11	WATER	M	1000	1000	1000000
12	POWER	KWH	1000	1000	1000000
13	MAINTENANCE	M	1000	1000	1000000
14	INSURANCE	M	1000	1000	1000000
15	PROFIT	M	1000	1000	1000000
16	TOTAL				16000000

LEGEND

BREAST WALL

TOE DRAIN

WEEP HOLES

NOTES

1. ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. MATERIALS SHALL BE AS PER SPECIFICATION.
3. MATERIALS SHALL BE COLLECTED FROM NEARBY SOURCES.
4. BREAST WALL HAS BEEN CONSTRUCTED AS PER TABLE OF APPLICABILITY.

